

SPECIFICATION FOR APPROVAL

CUSTOMER : 融程電訊股份有限公司

PART NAME : WIFI EMBEDDED ANTENNA

PART NO. : 397000300008 REVISION :

BRITO P/NO. : WFOEM12-10500

AD NO. : AD-B-769-A

	MANUFACTURER			CUSTOMER		
	SIGNATURE			SIGNATURE		
APPROVED :	核 準	審 核	承 辦	核 準	審 核	承 辦
BY :	NISA	JOHN	LINDA			
DATE :	2011/10/20					

承認書目錄

品名：	WIFI EMBEDDED ANTENNA	
NO.	ITEM	PAGE
1	承認書封面	1
2	承認書目錄	2
3	產品規格表	3
4	產品工程圖	4
5	SGS REPORT	5~191

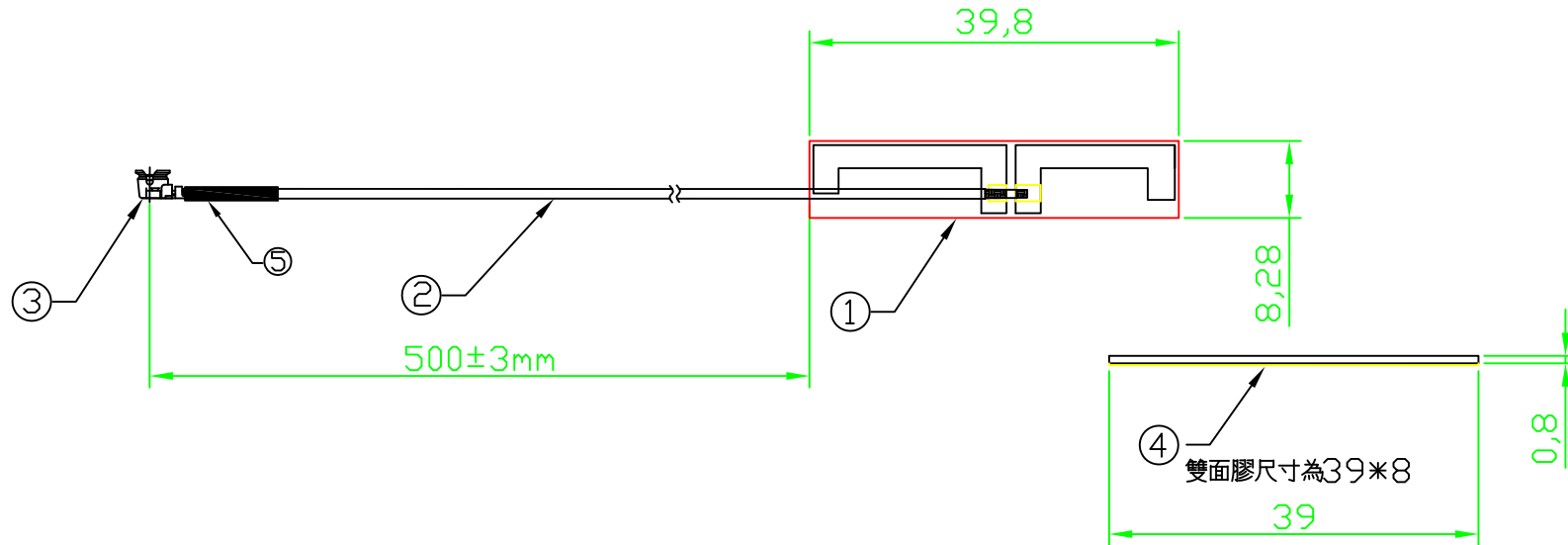
WIFI EMBEDDED ANTENNA

Specification

1. FREQUENCY RANGE ----- 2.4~2.5 GHz
2. V.S.W.R----- ≤ 2.0
3. IMPEDANCE----- 50Ω
4. WIRE----- OD1.13 CABLE BLACK
5. PCB----- FR4
6. CONNECTOR----- IPEX
7. Operating Temperature----- $-20^{\circ}\text{C} \sim +65^{\circ}\text{C}$
8. Storage Temperature----- $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$
9. Gain----- 2dBi

DRAW ID
CD

REVISION			
REV.	DESCRIPTION	APPROVAL	DATE.
V0.7	更改線長為 500mm (R)		2010 11/18



ITEM	DESCRIPTION	Q'TY
5	熱縮 BLACK TUBE(10mm)	
4	雙面背膠 3M 9888T (39*8)	1PCS
3	CONN MHF PLUG FOR Ø1.13mm CABLE	1PCS
2	CABLE Ø1.13mm CABLE	1PCS
1	PCB FR-4	1PCS

备注 ※未标注公差处, 请参照下例标准。

TOLERANCE UNLESS OTHERWISE SPECIFIED (±)						
CLASS	A	B	C	D	E	F (G)
< 8mm	0.05	0.1	0.1	0.2	0.2	0.4
8 ~ 25mm	0.08	0.15	0.15	0.3	0.3	0.6
25 ~ 80mm	0.12	0.2	0.25	0.4	0.5	1.0
80 ~ 250mm	0.25	0.3	0.4	0.6	0.8	1.5
250 ~ 800mm	0.5	0.6	0.8	1.0	1.5	3.0
> 800mm	1.0	1.0	1.5	1.7	3.0	6.0
ANGLE	0.5°					
Units	MM	Rev.	A1			
Size	A4	Scale	1:1			
Sheet	PAGE					

RoHS COMPLIANT

Brito 昶陽科技有限公司
BRITO TECHNOLOGY

CUST. P/N:		DRAW. : JOHN	
TITLE: 2.4G WiFi		ENGIN. : JOHN	
BRITO P/N: WF0EM12-I0500		CHECK. : Bruce	
UNITS mm	DWG. NO. : WFE-B-769-A	REV. V. 06	APPR. :

4

3

2

1

測試報告

Test Report

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永勝泰科技股份有限公司

ONSTATIC TECHNOLOGY CO., LTD.

台北縣鶯歌鎮仁愛路1號7樓

7F, NO. 1, REN-AI RD., YINGGE TOWN, TAIPEI COUNTY 239, TAIWAN



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description) : 熱硬化型防焊油墨 (THERMAL CUREABLE SOLDER RESIST INK)
樣品型號(Style/Item No.) : S-300 綠色
收件日期(Sample Receiving Date) : 2010/02/01
測試期間(Testing Period) : 2010/02/01 TO 2010/02/04

=====
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) : 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯及多溴聯苯醚的測試結果符合RoHS(2002/95/EC)及其修定指令之要求 (Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試結果(Test Results)

測試部位(PARTNAME)NO.1 : 綠色膏狀 (乾基測試) (GREEN PASTE (DRY BASE))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	法規 限值 (Limit)
				NO.1	
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
銻 / Antimony (Sb)	mg/kg	參考US EPA 3050B方法, 以感應耦合電漿原子發射光譜儀檢測銻含量. / With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	-
三氧化二銻 / Antimony trioxide (Sb ₂ O ₃)* (CAS No.: 001309-64-4)	mg/kg	參考US EPA 3050B方法, 以感應耦合電漿原子發射光譜儀檢測銻含量. / With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	-	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	法規 限值 (Limit)
				NO.1	
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測。 / Analysis was performed by FTIR and FLAME Test.	-	Negative	-
多溴聯苯總和 / Sum of PBBs	mg/kg	參考 IEC 62321: 2008 方法, 以氣相層析 儀/質譜儀檢測。 / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
一溴聯苯 / Monobromobiphenyl			5	n.d.	-
二溴聯苯 / Dibromobiphenyl			5	n.d.	-
三溴聯苯 / Tribromobiphenyl			5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	-
五溴聯苯 / Pentabromobiphenyl			5	n.d.	-
六溴聯苯 / Hexabromobiphenyl			5	n.d.	-
七溴聯苯 / Heptabromobiphenyl			5	n.d.	-
八溴聯苯 / Octabromobiphenyl			5	n.d.	-
九溴聯苯 / Nonabromobiphenyl			5	n.d.	-
十溴聯苯 / Decabromobiphenyl			5	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	5	n.d.	-		
十溴聯苯醚 / Decabromodiphenyl ether	5	n.d.	-		

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備註(Note) :

1. mg/kg = ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. ** = Qualitative analysis (No Unit) 定性分析(無單位)
6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
7. ***: 該物質是由"三丁基錫", "三苯基錫"或各別元素(例如: 砷、鉛、銻、鉍、矽、鋅、磷或六價鉻)之測試結果計算得知. 其MDL是針對"三丁基錫", "三苯基錫"或元素(例如: 砷、鉛、銻、鉍、矽、鋅、磷或六價鉻)之評估. (The substance was calculated by the test results of Tributyl Tin, Triphenyl Tin or element (Ex. Arsenic, Lead, Antimony, Beryllium, Silicon, Zinc, Phosphorus or Cr(VI) respectively). The MDL was evaluated for Tributyl Tin, Triphenyl Tin or element (Ex. Arsenic, Lead, Antimony, Beryllium, Silicon, Zinc, Phosphorus or Cr(VI) respectively.))

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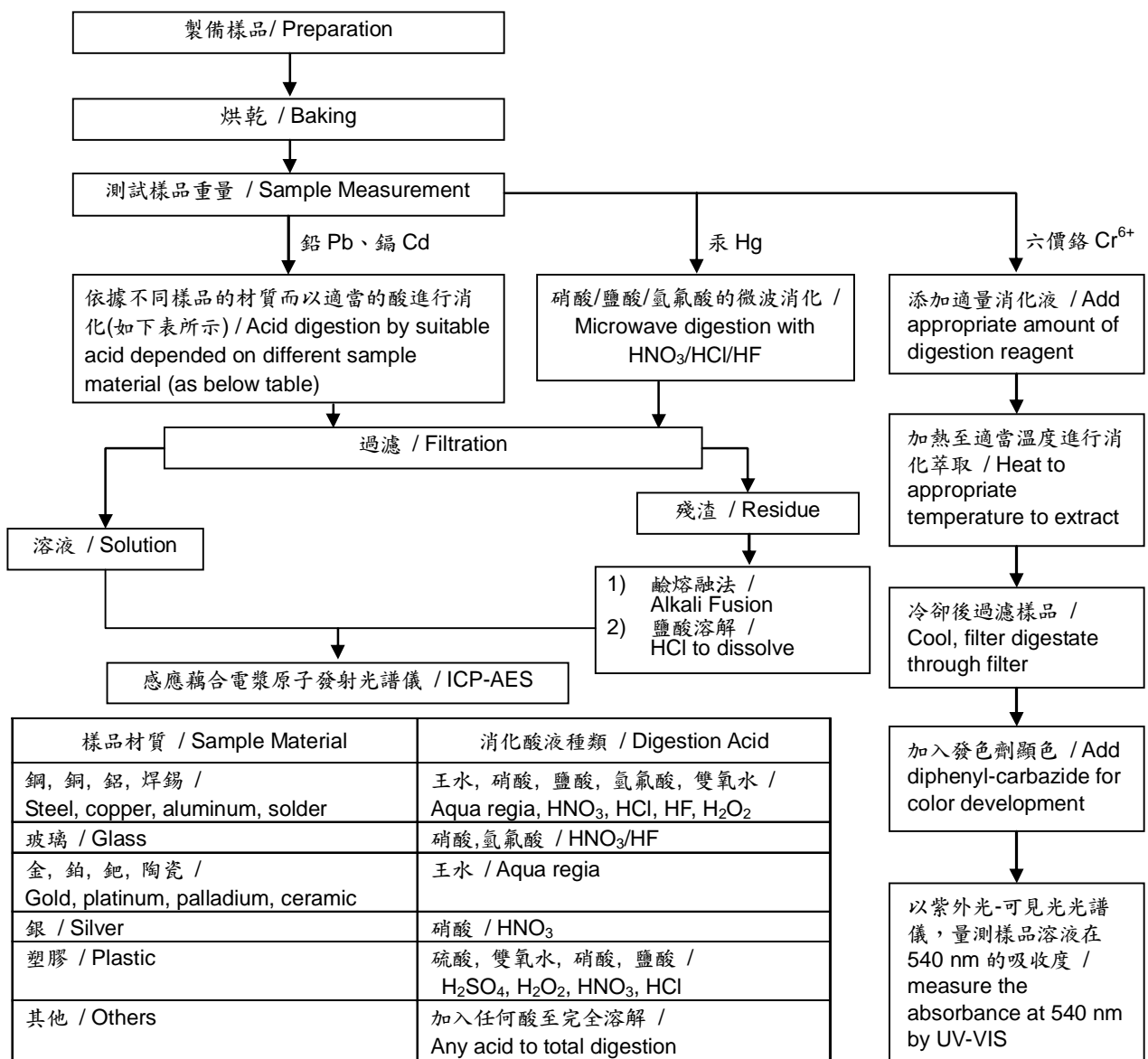
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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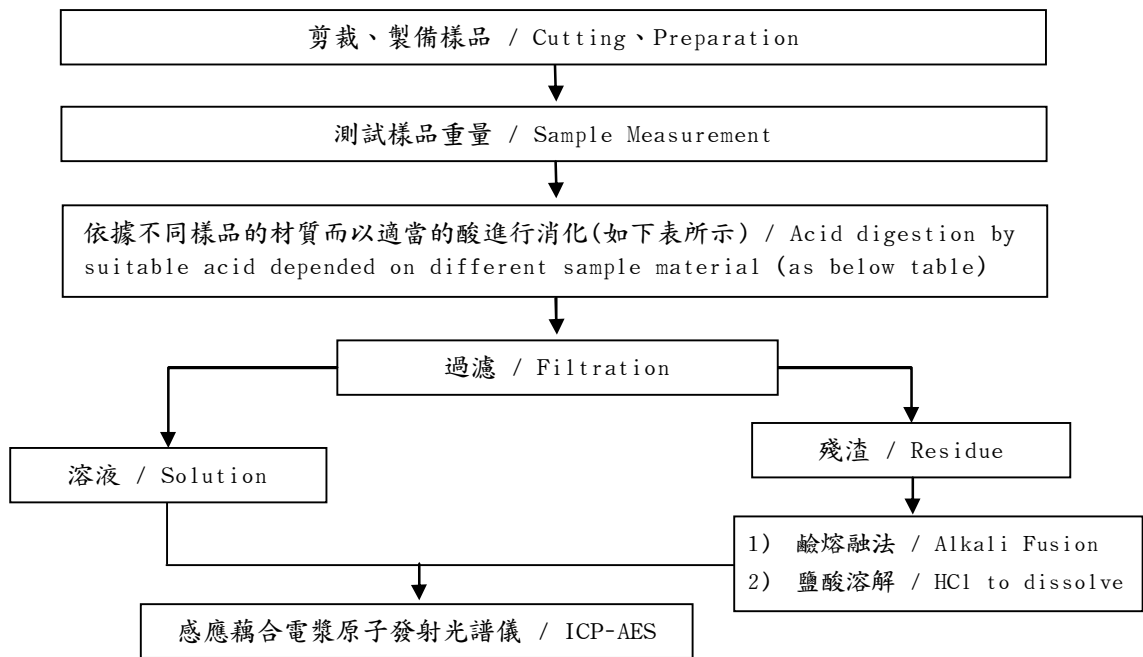
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7F, NO. 1, REN-AI RD., YINGGE TOWN, TAIPEI COUNTY 239, TAIWAN



- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸, 氫氟酸 / HNO ₃ /HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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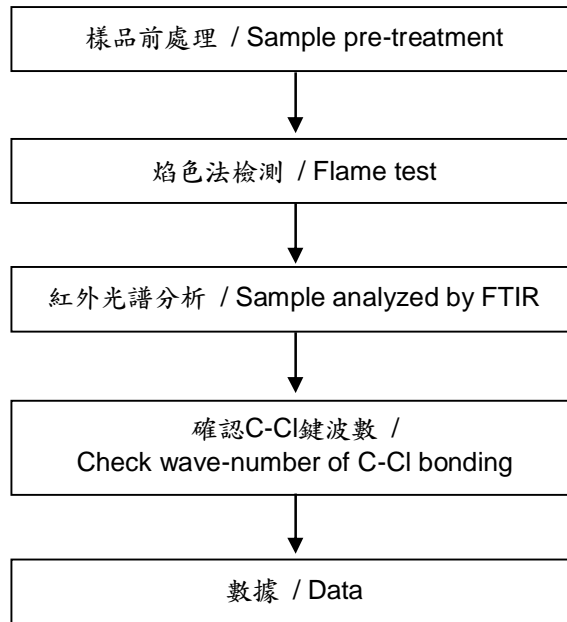
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聚氯乙稀物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

- 1) 測試人員：趙婉愉 / Name of the person who made measurement: Eva Chao
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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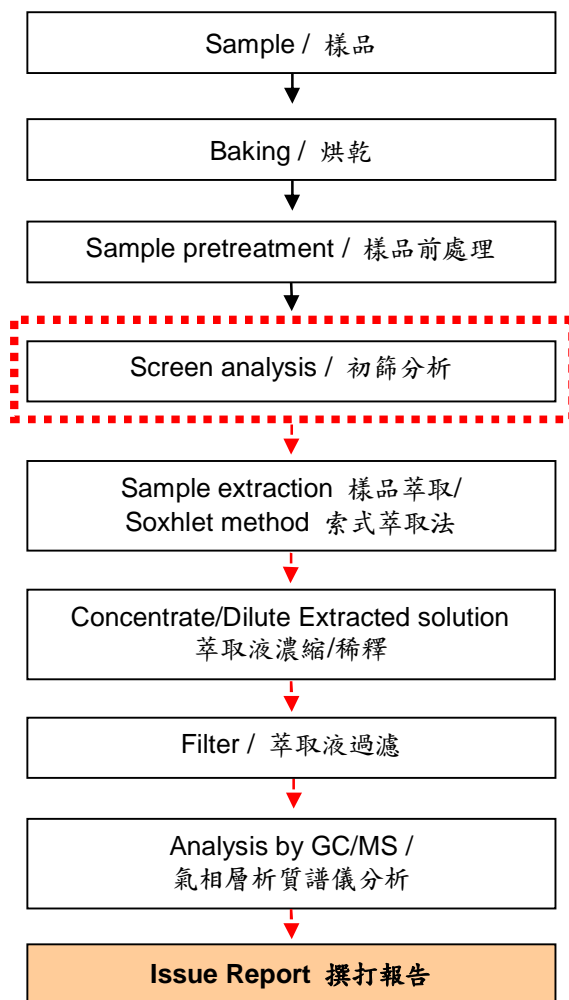
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

初次測試程序 / First testing process —————>

選擇性篩檢程序 / Optional screen process

確認程序 / Confirmation process - - - ->



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** 報告結尾 (End of Report) **

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測試報告

Test Report

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南亞塑膠工業股份有限公司 (台灣) / NAN YA PLASTICS CORPORATION (TAIWAN)
(南亞電子材料 (昆山) 有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD.)
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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD, SHIWAN TOWN, BOLUO COUNTY,
HUIZHOU CITY, GUANG DONG)



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description) : LAMINATE (UL E98983)
樣品型號(Style/Item No.) : UV BLOCK FR-4-86/NP-140TL
買主/訂單號碼(Buyer/Order No.) : 0508215
收件日期(Sample Receiving Date) : 2010/06/08
測試期間(Testing Period) : 2010/06/08 TO 2010/06/14

=====
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試結果(Test Results)

測試部位(PARTNAME)NO.1 : 混測銅色/棕色板子 (MIXED COPPER/BROWN SHEET)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3050B方法, 以感應耦合電漿原子發射光譜儀檢測鈹含量. / With reference to US EPA Method 3050B for Beryllium Content. Analysis was performed by ICP-AES.	2	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
二氯化鈷 / Cobalt dichloride (CAS No.: 007646-79-9)	mg/kg	參考SGS內部方法RSTS-EE-SVHC-003, RSTS-EE-SVHC-004, 以感應耦合電漿原子發射光譜儀檢測。 / SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004. Analyzed by ICP-AES.	5	n.d.
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測。 / Analysis was performed by FTIR and FLAME Test.	-	Negative
多氯聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 001336-36-3)	mg/kg	參考US EPA 3540C方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.
多氯萘 / Polychlorinated Naphthalene (PCNs)	mg/kg	參考US EPA 3540C方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
多氯三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	參考US EPA 3540C方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8)	%	參考US EPA 3540C方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	n.d.
福馬林 (甲醛) / Formaldehyde (CAS No.: 000050-00-0)	mg/kg	參考DIN 53315方法, 以高效液相層析儀/二極體陣列偵測器檢測。 / With reference to DIN 53315. Analysis was performed by HPLC/DAD.	3	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) PFOS - Acid PFOS - Metal Salt PFOS - Amide	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析/質譜儀檢測全氟辛烷磺酸含量. / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 000335-67-1)	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析/質譜儀檢測全氟辛酸(銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.
溴甲烷 / Bromomethane (CAS No.: 000074-83-9)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
2-(3', 5'-二叔丁基-2'-羟基苯基)苯並三氮唑 / 2-(3,5-di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole (CAS No.: 003846-71-7)	mg/kg	參考US EPA 3540C方法, 以氣相層析/質譜儀檢測之. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	458
鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	49600

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO.1		
多溴聯苯總和 / Sum of PBBs	mg/kg	參考 IEC 62321: 2008 方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.		
一溴聯苯 / Monobromobiphenyl			5	n.d.		
二溴聯苯 / Dibromobiphenyl			5	n.d.		
三溴聯苯 / Tribromobiphenyl			5	n.d.		
四溴聯苯 / Tetrabromobiphenyl			5	n.d.		
五溴聯苯 / Pentabromobiphenyl			5	n.d.		
六溴聯苯 / Hexabromobiphenyl			5	n.d.		
七溴聯苯 / Heptabromobiphenyl			5	n.d.		
八溴聯苯 / Octabromobiphenyl			5	n.d.		
九溴聯苯 / Nonabromobiphenyl			5	n.d.		
十溴聯苯 / Decabromobiphenyl			5	n.d.		
多溴聯苯醚總和 / Sum of PBDEs					-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether					5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether					5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether					5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether					5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether					5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether					5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether					5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether					5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.		
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.		
有機錫 / Organic-tin compounds						
三丁基錫 / Tributyl Tin (TBT) (CAS No.: 000688-73-3)	mg/kg	參考 DIN 38407-13 方法, 以氣相層析儀/火焰光度偵測器檢測. / With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.		
三苯基錫 / Triphenyl Tin (TphT) (CAS No.: 000668-34-8)			0.03	n.d.		

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
石棉 / Asbestos				
陽起石 / Actinolite (CAS No.: 077536-66-4)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / With reference to NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
棕石棉 / Amosite (CAS No.: 012172-73-5)			1	Negative
斜方角閃石 / Anthophyllite (CAS No.: 077536-67-5)			1	Negative
白石棉 / Chrysotile (CAS No.: 012001-29-5)			1	Negative
青石棉 / Crocidolite (CAS No.: 012001-28-4)			1	Negative
透閃石 / Tremolite (CAS No.: 077536-68-6)			1	Negative
可塑劑定量分析 / Phthalates				
鄰苯二甲酸甲苄基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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南亞塑膠工業股份有限公司 (台灣) / NAN YA PLASTICS CORPORATION (TAIWAN)



(南亞電子材料 (昆山) 有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD.)

(南亞電子材料 (惠州) 有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD.)

台灣台北市敦化北路201號 / 201, TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201, CHANG JIANG ROAD (S), KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD, SHIWAN TOWN, BOLUO COUNTY, HUIZHOU CITY, GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 000084-75-3)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
偶氮 (AZO)				
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 000092-67-1)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
2): 聯苯胺 / BENZIDINE (CAS No.: 00092-87-5)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
3): 4-氯鄰甲苯胺 / 4-CHLORO-O-TOLUIDINE (CAS No.: 000095-69-2)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
4): 2-萘胺 / 2-NAPHTHYLAMINE (CAS No.: 000091-59-8)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
5): 鄰氨基二甲基偶氮 / O-AMINOAZOTOLUENE (CAS No.: 000097-56-3)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
6): 對硝基鄰甲苯胺 / 2-AMINO-4-NITROTOLUENE (CAS No.: 000099-55-8)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 000106-47-8)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
8): 4-甲氧基-間苯二胺 / 2,4-DIAMINOANISOLE (CAS No.: 000615-05-4)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
9): 4,4'-二氨基二苯甲烷 / 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000101-77-9)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
10): 3,3'-二氯聯苯胺 / 3,3'-DICHLOROBENZIDINE (CAS No.: 000091-94-1)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
11): 3,3'-二甲氧基聯苯胺 / 3,3'-DIMETHOXYBENZIDINE (CAS No.: 000119-90-4)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
12): 3,3'-二甲基聯苯胺 / 3,3'-DIMETHYLBENZIDINE (CAS No.: 000119-93-7)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000838-88-0)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
14): 2-甲氧基-5-甲基聯苯 / P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 000120-71-8)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
15): 4,4'-亞甲基雙 (氯苯胺) / 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 000101-14-4)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
16): 4,4'-氧化雙苯胺 / 4,4'-OXYDIANILINE (CAS No.: 000101-80-4)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
17): 4,4'-硫代雙苯胺 / 4,4'-THIODIANILINE (CAS No.: 000139-65-1)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 000095-53-4)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
19): 2,4-二氨基甲苯 / 2,4-TOLYLENEDIAMINE (CAS No.: 000095-80-7)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
20): 2,4,5-三甲基苯胺 / 2,4,5-TRIMETHYLANILINE (CAS No.: 000137-17-7)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 000090-04-0)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
22): 對氨基偶氮苯 / P-AMINOAZOBENZENE (CAS No.: 000060-09-3)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 000095-68-1)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 000087-62-7)	mg/kg	參考LMBG 82.02-2方法, 以氣相層析/質譜儀檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氫氟碳化物 / HFCs (Hydrofluorocarbon)				
氫氟碳化物(HFC)-23 (CHF3)(CAS No.: 000075-46-7)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-32 (CH2F2)(CAS No.: 000075-10-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-41 (CH3F)(CAS No.: 000593-53-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-43-10mee (C5H2F10)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-125 (C2HF5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-134 (C2H2F4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-134a (CH2FCF3)(CAS No.: 000811-97-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-143 (CH3F3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氫氟碳化物(HFC)-143a (CH3F3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-152a (C2H4F2)(CAS No.: 000075-37-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-227ea (C3HF7)(CAS No.: 000431-89-0)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-236fa (C3H2F6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-236ea (C3H2F6)(CAS No.: 000431-63-0)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-245ca (C3H3F5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-245fa (C3H3F5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-365mfc (C4H5F5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
全氟碳化物 / PFCs (Perfluorocarbon)				
四氟甲烷 / F14 (CAS No.: 000075-73-0)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
六氟乙烷 / Fluorocarbon 116 (CAS No.: 000076-16-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
八氟丙烷 / Freon 218 (CAS No.: 000076-19-7)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
十氟丁烷 / Decafluorobutane (CAS No.: 000355-25-9)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
八氟環丁烷 / Freon C318 (CAS No.: 000115-25-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
全氟-1-丁烯 / Perfluor-1-butene (CAS No.: 000357-26-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
全氟異丁烯 / perfluorisobutene (CAS No.: 000382-21-8)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,4-二氫八氟丁烷 / 1,4-dihydrooctafluorobutane (CAS No.: 000377-36-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
2-全氟甲基丁烷 / nonafluor-2-(trifluoromethyl)butane (CAS No.: 000594-91-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
全氟戊烷 / perfluoro-n-pentane (CAS No.: 000678-26-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
2-全氟甲基戊烷 / 2-perfluoromethylpentane (CAS No.: 000355-04-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
全氟己烷 / perfluorohexane (CAS No.: 000355-42-0)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物 / CFCs (Chlorofluorocarbons)				
Group I				
氟氯碳化物(Chlorofluorocarbon)-11 (CAS No.: 000075-69-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-12 (CAS No.: 000075-71-8)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-113 (CAS No.: 000076-13-1)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-114 (CAS No.: 000076-14-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯碳化物(Chlorofluorocarbon)-115 (CAS No.: 000076-15-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Group III				
氟氯碳化物(Chlorofluorocarbon)-13 (CAS No.: 000075-72-9)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-111 (CAS No.: 000354-56-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-112 (CAS No.: 000076-12-0)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-211 (CAS No.: 000422-78-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-212 (CAS No.: 003182-26-1)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-213 (CAS No.: 002354-06-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-214 (CAS No.: 029255-31-0)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯碳化物(Chlorofluorocarbon)- 215 (CAS No.: 004259-43-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢 測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)- 216 (CAS No.: 000661-97-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢 測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)- 217 (CAS No.: 000422-86-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢 測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物 / HCFCs (Hydrochlorofluorocarbons)				
氟氯氫碳化物(HCFC)-21 (CAS No.: 000075-43-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢 測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-22 (CAS No.: 000075-45-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢 測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-31 (CAS No.: 000593-70-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢 測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-121 (CAS No.: 000354-14-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢 測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-122 (CAS No.: 000354-21-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢 測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯氫碳化物(HCFC)-123 (CAS No.: 000306-83-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-124 (CAS No.: 002837-89-0)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-131 (CAS No.: 000359-28-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-132b (CAS No.: 001649-08-7)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-133a (CAS No.: 000075-88-7)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-141b (CAS No.: 001717-00-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-142b (CAS No.: 000075-68-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-221 (CAS No.: 000422-26-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-222 (CAS No.: 000422-49-1)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯氫碳化物(HCFC)-223 (CAS No.: 000422-52-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-224 (CAS No.: 000422-54-8)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-225ca (CAS No.: 000422-56-0)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-225cb (CAS No.: 000507-55-1)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-226 (CAS No.: 000431-87-8)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-231 (CAS No.: 000421-94-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-232 (CAS No.: 000460-89-9)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-233 (CAS No.: 007125-84-0)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-234 (CAS No.: 000425-94-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯氫碳化物(HCFC)-235 (CAS No.: 000460-92-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-241(CAS No.: 000666-27-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-242 (CAS No.: 000460-63-9)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-243 (CAS No.: 000460-69-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-244	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-251 (CAS No.: 000421-41-0)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-252 (CAS No.: 000819-00-1)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-253 (CAS No.: 000460-35-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-261 (CAS No.: 000420-97-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯氫碳化物(HCFC)-262 (CAS No.: 000421-02-03)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-271 (CAS No.: 000430-55-7)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
海龍 (Halons)				
海龍(Halon)-1211 (CAS No.: 000353-59-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
海龍(Halon)-1301 (CAS No.: 000075-63-8)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
海龍(Halon)-2402 (CAS No.: 000124-73-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物 / HBFCs (Hydrobromofluorocarbons)				
不完全鹵化氟溴化物(HBFC)-21B2 (CHFBr ₂) (CAS No.: 001868-53-7)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-22B1 (CHF ₂ Br) (CAS No.: 001511-62-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-31B1 (CH ₂ FBr) (CAS No.: 000373-52-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
不完全鹵化氟溴化物(HBFC)-121B4 (C2HFBr4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-122B3 (C2HF2Br3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-123B2 (C2HF3Br2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-124B1 (C2HF4Br)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-131B3 (C2H2FBr3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-132B2 (C2H2F2Br2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-133B1 (C2H2F3Br)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-141B2 (C2H3FBr2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-142B1 (C2H3F2Br)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
不完全鹵化氟溴化物(HBFC)-151B1 (C2H4FBr)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-221B6 (C3HFBr6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-222B5 (C3HF2Br5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-223B4 (C3HF3Br4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-224B3 (C3HF4Br3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-225B2 (C3HF5Br2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-226B1 (C3HF6Br)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-231B5 (C3H2FBr5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-232B4 (C3H2F2Br4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
不完全鹵化氟溴化物(HBFC)-233B3 (C3H2F3Br3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-234B2 (C3H2F4Br2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-235B1 (C3H2F5Br)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-241B4 (C3H3FBr4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-242B3 (C3H3F2Br3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-243B2 (C3H3F3Br2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-244B1 (C3H3F4Br)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-251B3 (C3H4FBr3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-252B2 (C3H4F2Br2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試報告

Test Report

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南亞塑膠工業股份有限公司 (台灣) / NAN YA PLASTICS CORPORATION (TAIWAN)
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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
不完全鹵化氟溴化物(HBFC)-253B1 (C3H4F3Br)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-261B2 (C3H5FBr2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-262B1 (C3H5F2Br)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-271B1 (C3H6FBr)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氯化碳氫化物 / CHCs (Chlorinate hydrocarbon)				
1,1,1,2-四氯乙烷 / 1,1,1,2-Tetrachloroethane (CAS No.: 000630-20-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,1,1-三氯乙烷 / 1,1,1-Trichloroethane (CAS No.: 000071-55-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,1,2,2-四氯乙烷 / 1,1,2,2-Tetrachloroethane (CAS No.: 000079-34-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,1,2-三氯乙烷 / 1,1,2-Trichloroethane (CAS No.: 000079-00-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
1,1-二氯乙烷 / 1,1-Dichloroethane (CAS No.: 000075-34-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,1-二氯乙烯 / 1,1-Dichloroethene (CAS No.: 000075-35-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,1-二氯丙烯 / 1,1-Dichloropropene (CAS No.: 000563-58-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,2,3-三氯丙烷 / 1,2,3-Trichloropropane (CAS No.: 000096-18-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 000107-06-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,2-二氯丙烷 / 1,2-Dichloropropane (CAS No.: 000078-87-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,3-二氯丙烷 / 1,3-Dichloropropane (CAS No.: 000142-28-9)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
2,2-二氯丙烷 / 2,2-Dichloropropane (CAS No.: 000594-20-7)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
四氯甲烷(四氯化碳) / Carbon tetrachloride (CAS No.: 000056-23-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氯乙烷 / Chloroethane (CAS No.: 000075-00-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氯仿 / Chloroform (CAS No.: 000067-66-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
氯甲烷 / Chloromethane (CAS No.: 000074-87-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
順-1,2-二氯乙烯 / cis-1,2-Dichloroethene (CAS No.: 000156-59-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
順-1,3-二氯丙烯 / cis-1,3-Dichloropropene (CAS No.: 010061-01-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
六氯丁二烯 / Hexachlorobutadiene (CAS No.: 000087-68-3)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
二氯甲烷 / Dichloromethane (CAS No.: 000075-09-2)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
四氯乙烯 / Tetrachloroethene (CAS No.: 000127-18-4)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
反-1,2-二氯乙烯 / trans-1,2-Dichloroethene (CAS No.: 000156-60-5)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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測試報告

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
反-1,3-二氯丙烯 / trans-1,3-Dichloropropene (CAS No.: 010061-02-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
三氯乙烯 / Trichloroethylene (CAS No.: 000079-01-6)	mg/kg	參考US EPA 5021方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. ** = Qualitative analysis (No Unit) 定性分析(無單位)
6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
7. 石棉(Asbestos) : Negative = 陰性 (< 1.0 %), Positive = 陽性 (> 1.0 %)
8. 樣品的測試是基於申請人要求混合測試, 報告中的混合測試結果不代表其中個別單一材質的含量. (The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

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**PFOS參考資訊(Reference Information) : 指令 2006/122/EC (Directive 2006/122/EC)**

- (1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%。
(May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005% by mass.)
- (2) 該物質不可置於市場上的半成品或商品或其物件；假若零件上明顯地具有PFOS並參照結構上及微細構造上計算PFOS重量濃度等於或大於0.1%，而紡織品或其他覆蓋物質，如果PFOS在覆蓋物質中含量等於或大於 $1\mu\text{g}/\text{m}^2$ 。
(May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1% by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than $1\mu\text{g}/\text{m}^2$ of the coated material.)

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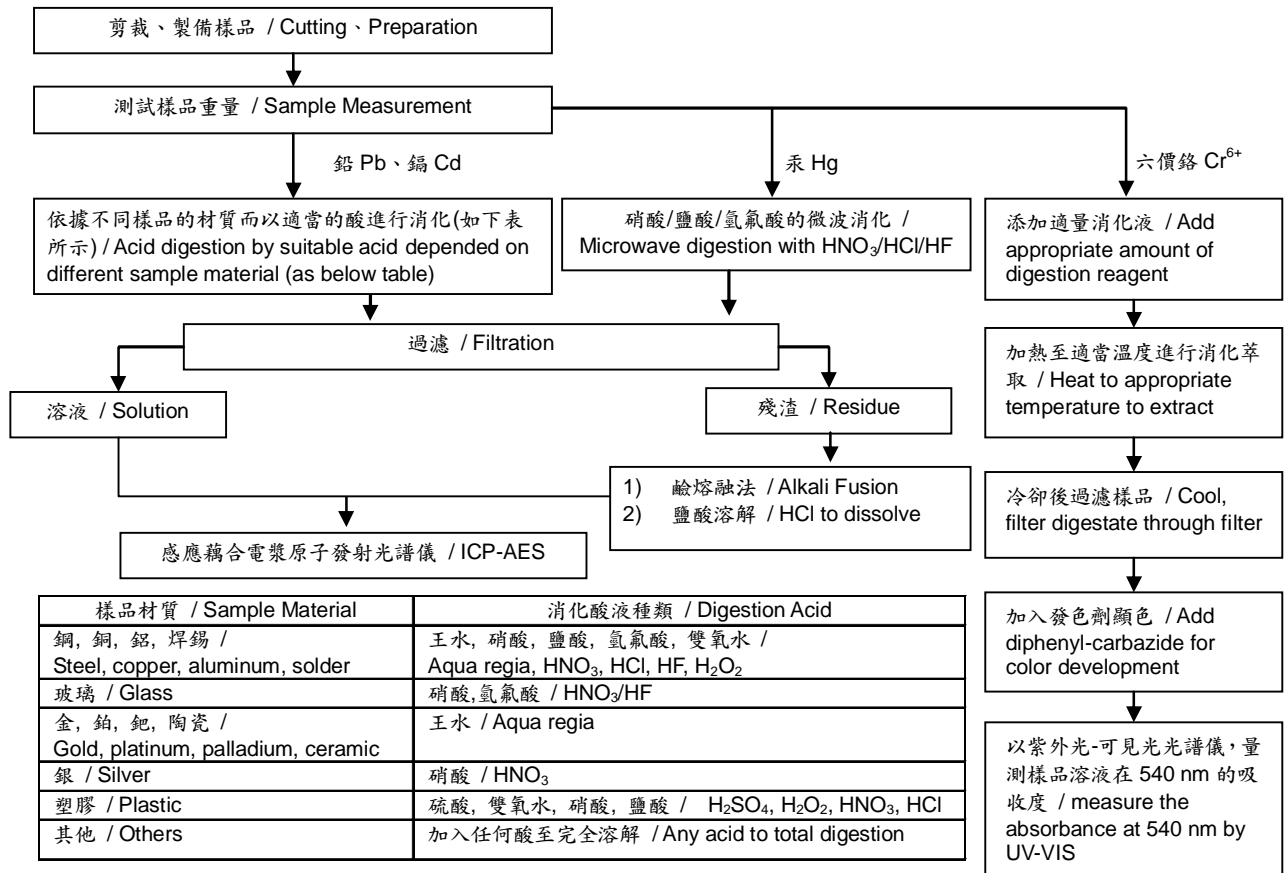
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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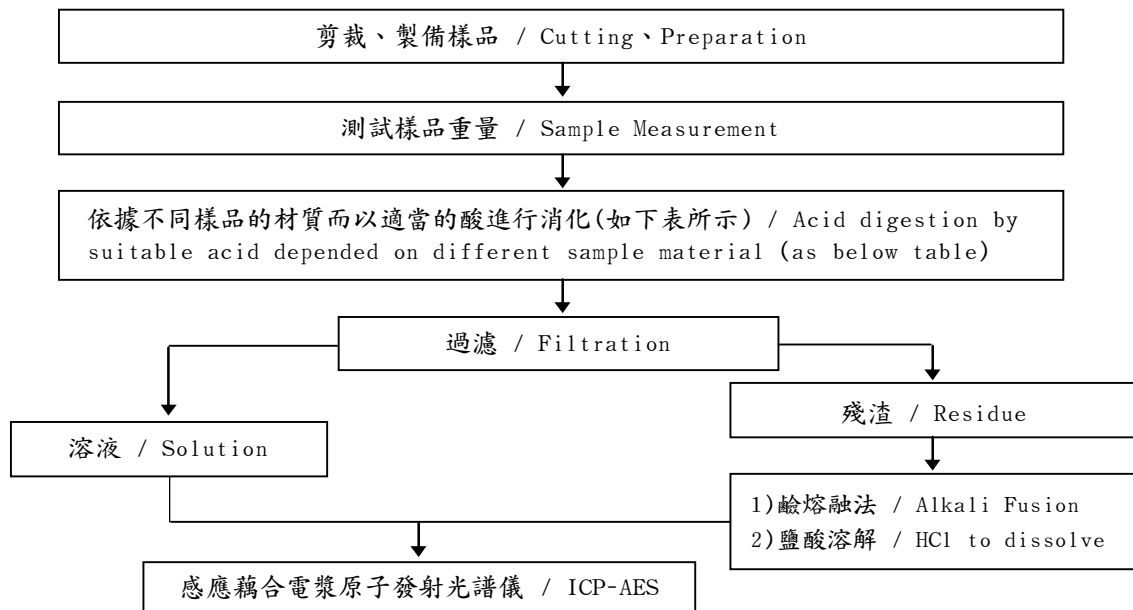
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸, 氫氟酸 / HNO ₃ /HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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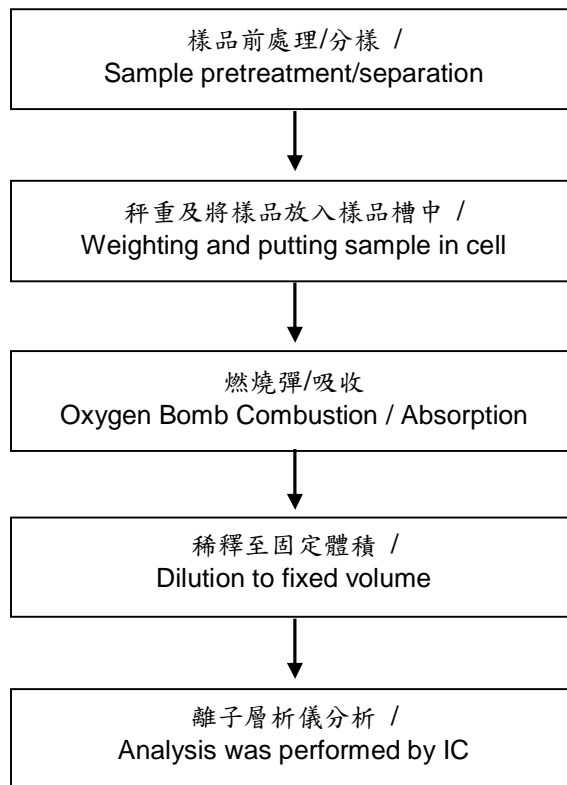
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：陳恩臻 / Name of the person who made measurement: Rita Chen
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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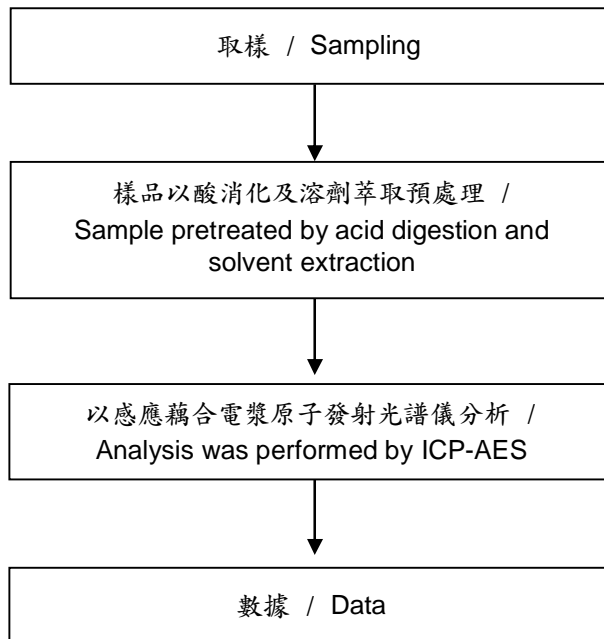
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二氯化鈷分析流程圖 / Analytical flow chart of Cobalt dichloride

- 1) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 2) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung



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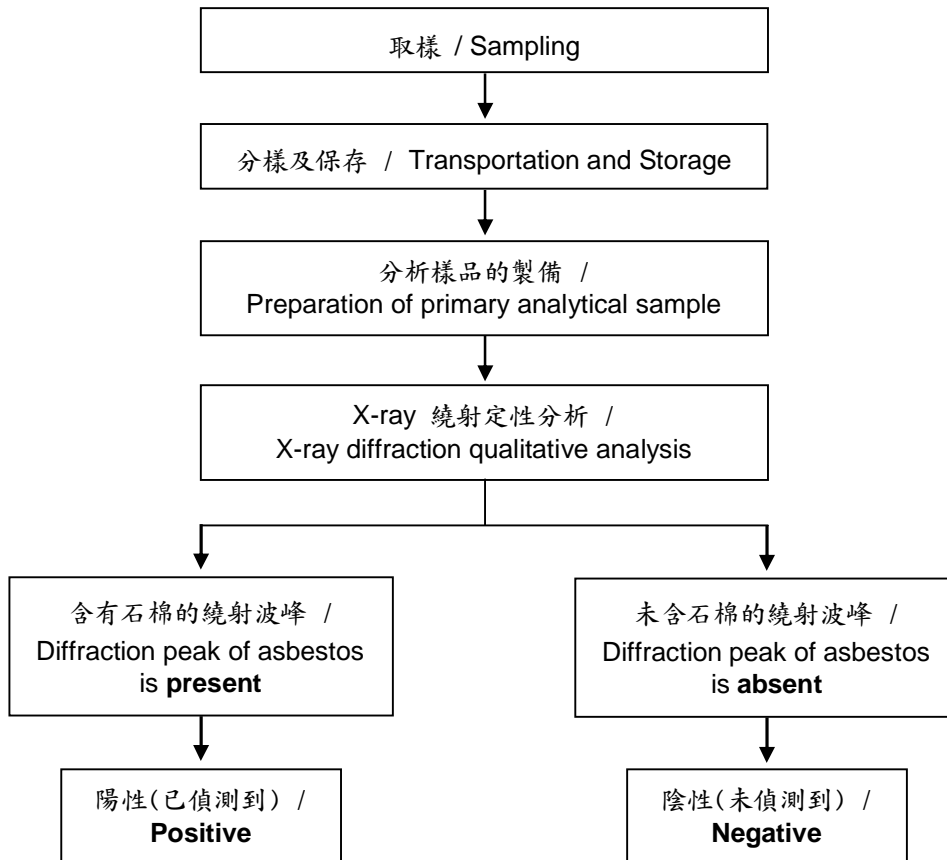
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石棉物質判定分析流程圖 /

Analysis flow chart for determination of Asbestos

- 1) 測試人員：高鍵忠 / Name of the person who made measurement: Victor Kao
- 2) 測試負責人：盧義龍 / Name of the person in charge of measurement: James Lu



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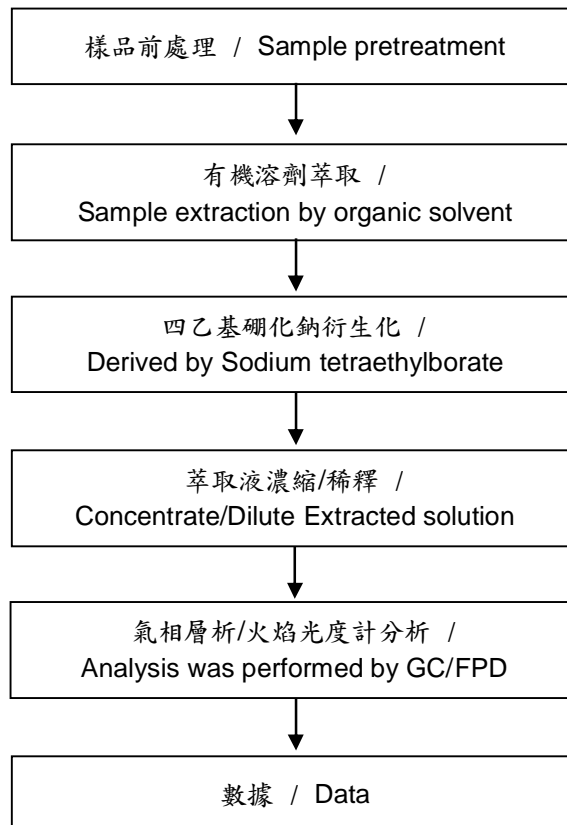
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有機錫分析流程圖 / Analytical flow chart of Organic-Tin content

- 1) 測試人員：涂雅苓 / Name of the person who made measurement: Vita Tu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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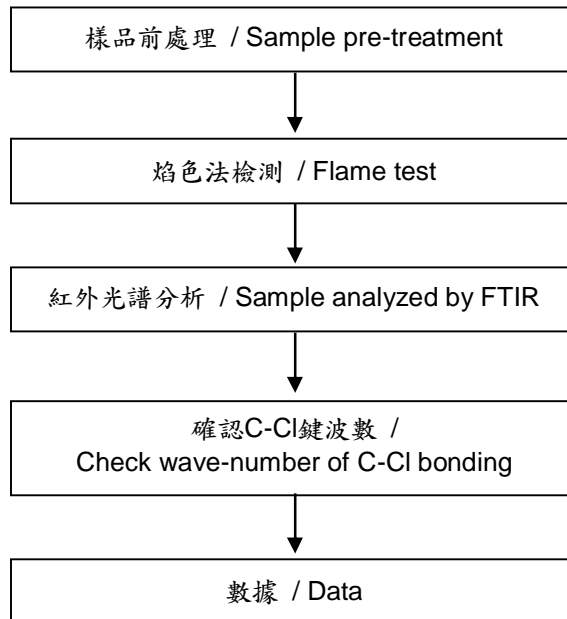
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聚氯乙稀物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

- 1) 測試人員：趙婉愉 / Name of the person who made measurement: Eva Chao
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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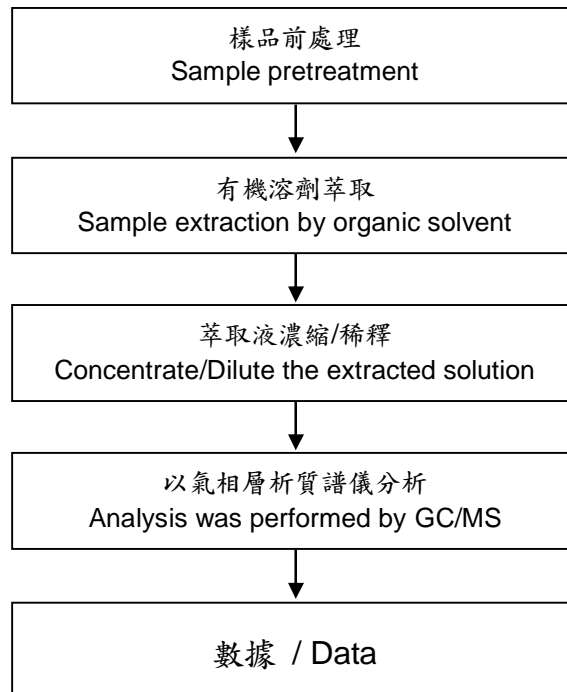
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含氯阻燃劑分析流程 / Chlorinated Flame retardant analytical flow chart

- 1) 測試人員：劉桓易 / Name of the person who made measurement: Max Liu
 - 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen
- 參考方法(Reference method): US EPA 8270D, US EPA 3540
 - 測試項目(Test Items): PCBs, PCNs, PCTs, Mirex, CP, MCCP / 多氯聯苯, 多氯奈, 多氯三聯苯, 滅蟻靈, 氯化石蠟, 中鏈氯化石蠟



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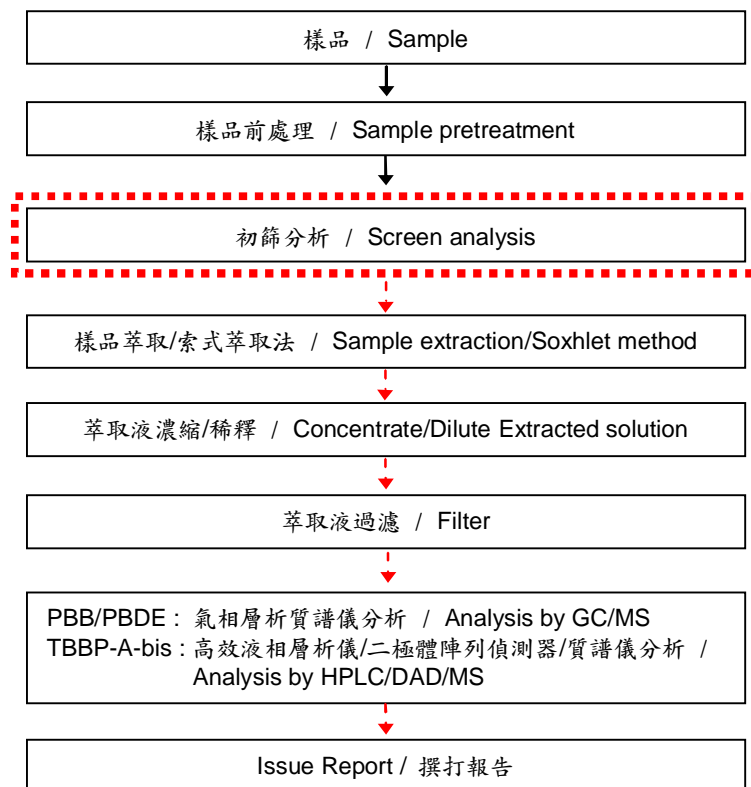
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分析流程圖 / Analytical flow chart

- 1) 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang
- 測試項目 (Test Items): 多溴聯苯/多溴聯苯醚, 四溴雙酚-A-雙 / PBB/PBDE, TBBP-A-bis

初次測試程序 / First testing process ———▶ 選擇性篩檢程序 / Optional screen process 確認程序 / Confirmation process - - -▶



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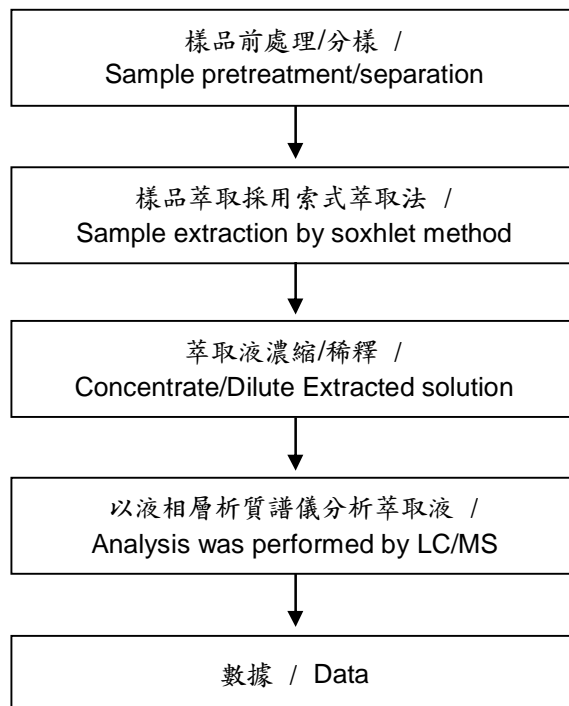


索式萃取(LC/MS)分析流程圖 /

Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) 測試人員：傅莉雅 / Name of the person who made measurement: Lydia Fu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

■ 測試項目(Test Items): 全氟辛烷磺酸/全氟辛酸(銨)、苯並三唑類化合物 /
 PFOS/PFOA、Benzotriazole



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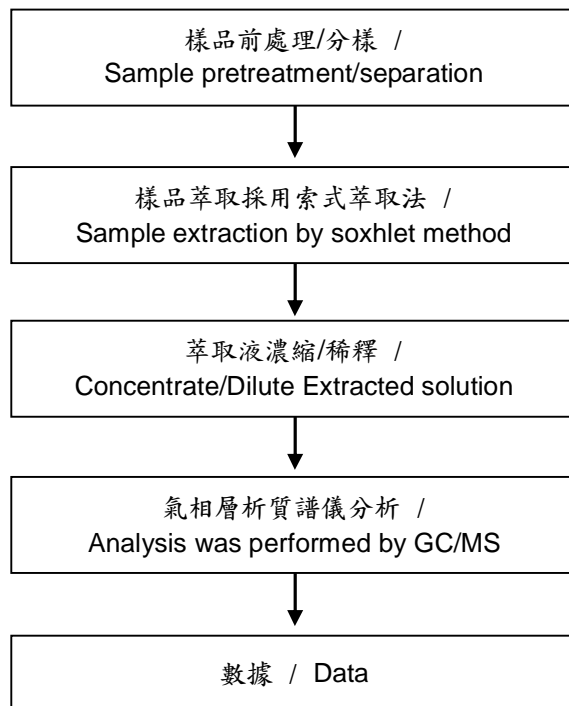
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索式萃取(GC/MS)分析流程圖 /

Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 1) 測試人員：傅莉雅 / Name of the person who made measurement: Lydia Fu
 - 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen
- 測試項目(Test Items): 可塑劑、苯並三唑類化合物、六溴環十二烷、壬酚、單甲基二溴二苯基甲烷 / Phthalate、Benzotriazole、HBCDD、NP、DBBT



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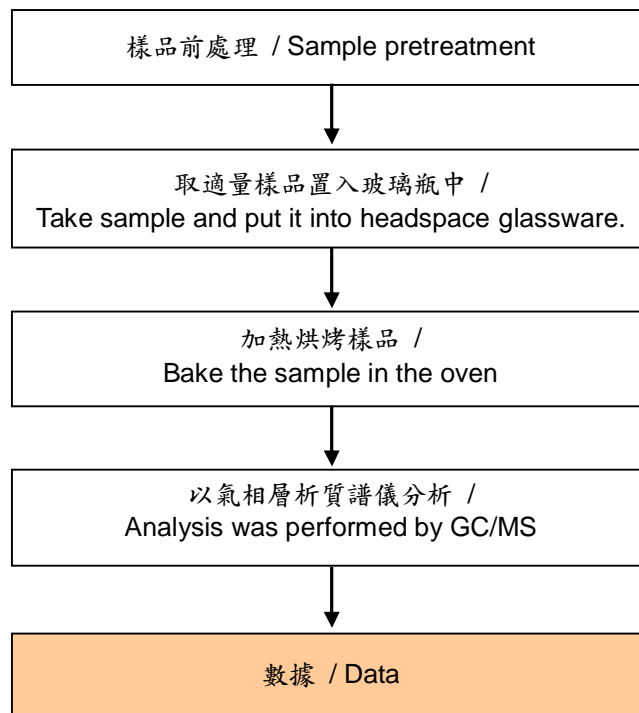
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揮發性有機化合物分析流程圖 /

Analytical flow chart of volatile organic compounds (VOCs)

- 1) 參考方法 : US EPA 5021 / Reference method : US EPA 5021
- 2) 測試人員 : 嚴蕙敏 / Name of the person who made measurement : Dalki Yen
- 3) 測試負責人 : 陳新智 / Name of the person in charge of measurement : Shinjyh Chen



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** 報告結尾 (End of Report) **

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以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description) : 無鉛錫棒 (UNLEAD Sn)
收件日期(Sample Receiving Date) : 2010/01/07
測試期間(Testing Period) : 2010/01/07 TO 2010/01/18

=====
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

James Lu.
James Lu / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試結果(Test Results)

測試部位(PARTNAME)NO.1 : 銀色金屬塊 (SILVER COLORED METAL)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
錫 / Tin (Sn)	%	餘量 / Balance	-	96.36
銀 / Silver (Ag)	%	參考0.01N NH ₄ SCN滴定法測試. / With reference to 0.01N NH ₄ SCN method.	2	3.12
鋁 / Aluminum (Al)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
砷 / Arsenic (As)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	60
金 / Gold (Au)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
硼 / Boron (B)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鋇 / Barium (Ba)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鈹 / Beryllium (Be)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鉍 / Bismuth (Bi)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	12
鈣 / Calcium (Ca)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	3
鎘 / Cadmium (Cd)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
鈰 / Cerium (Ce)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鈷 / Cobalt (Co)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鉻 / Chromium (Cr)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
銅 / Copper (Cu)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	4664
鐳 / Dysprosium (Dy)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鐵 / Iron (Fe)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	7
鎵 / Gallium (Ga)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鍺 / Germanium (Ge)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
汞 / Mercury (Hg)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
銦 / Indium (In)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	33
鉀 / Potassium (K)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
鋰 / Lithium (Li)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鎂 / Magnesium (Mg)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
錳 / Manganese (Mn)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鉬 / Molybdenum (Mo)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鈉 / Sodium (Na)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鈮 / Niobium (Nb)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
釹 / Neodymium (Nd)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鎳 / Nickel (Ni)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	24
磷 / Phosphorus (P)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鉛 / Lead (Pb)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	299
鈀 / Palladium (Pd)	mg/kg	以酸液消化以感應耦合電漿原子發射光 譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.

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				NO.1
鉑 / Platinum (Pt)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
銠 / Rhodium (Rh)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鈳 / Ruthenium (Ru)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
銻 / Antimony (Sb)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	43
釷 / Scandium (Sc)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
硒 / Selenium (Se)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
矽 / Silicon (Si)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
銻 / Strontium (Sr)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鉭 / Tantalum (Ta)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
銻 / Tellurium (Te)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
鈦 / Titanium (Ti)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鉈 / Thallium (Tl)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鈦 / Vanadium (V)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鎢 / Tungsten (W)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鈮 / Yttrium (Y)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鋅 / Zinc (Zn)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鋯 / Zirconium (Zr)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.
鐳 / Lanthanum (La)	mg/kg	以酸液消化以感應耦合電漿原子發射光譜儀做分析 / ICP-AES after as per acid digestion.	2	n.d.

備註(Note) :

1. mg/kg = ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)

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測試報告 Test Report

號碼(No.) : CM/2010/10081 日期(Date) : 2010/01/18 頁數(Page) : 7 of 7

記暉有限公司

JI HUI CO., LTD.

桃園縣蘆竹鄉內厝村2鄰長安路一段159巷13號

NO. 13, LANE 159, CHANGAN RD., SEC. 1, LU-CHU SHIANG, TAOYUAN HSIEN, TAIWAN



** 報告結尾 (End of Report) **

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SGS REPORT

SUBJECT: Survey for Environmental-Related Substances

This is applied for the following products:

I-PEX Product Name	I-PEX Part Number
MHF-I Plug Connector	20278-112R-13 20278-112R-32

Attachment:

Survey Form on Environmental Impact Substances Contained in Parts and Materials

SGS test report for MHF-I Plug Connector

Please refer to the attached SGS report.

Component name	SGS Report No.
HOUSING	CE_2011_20382
CONTACT	CE_2011_22069
GROUND CONTACT	CE_2011_22068 *

Remark:* The SGS Test Report can be applied to a component.

Test Report

No. : CE/2011/20382 Date : 2011/02/11 Page : 1 of 12

I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : MHF PLUG HOUSING
Style/Item No. : 1844-011-01
Sample Receiving Date : 2011/02/08
Testing Period : 2011/02/08 TO 2011/02/11

=====
Test Result(s) : Please refer to next page(s).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Test Result(s)

PART NAME No.1 : BLACK PLASTIC

Test Item (s):	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.
Antimony trioxide (Sb ₂ O ₃)(#) (CAS No.: 001309-64-4)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	-	n.d.
Phosphorus (P)	mg/kg	With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	26200
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
PFOA (CAS No.: 000335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.
Tetrabromobisphenol A (TBBP-A) (CAS No.: 000079-94-7)	mg/kg	With reference to DIN 53313. Analysis was performed by GC/MS.	10	n.d.
Hexabromocyclododecane (HBCDD) (CAS No.: 025637-99-4)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Test Item (s):	Unit	Method	MDL	Result No.1
Sum of PBBs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
Sum of PBDEs			-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.
Halogen				
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	1060
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. (#): The substance was calculated by the test result of Antimony. The MDL was evaluated for Antimony.

$$AX = A \times F$$

AX	A	F
Antimony trioxide (Sb2O3)	Antimony	1.1971

PFOS Reference Information : Directive 2006/122/EC

(1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.

(2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.

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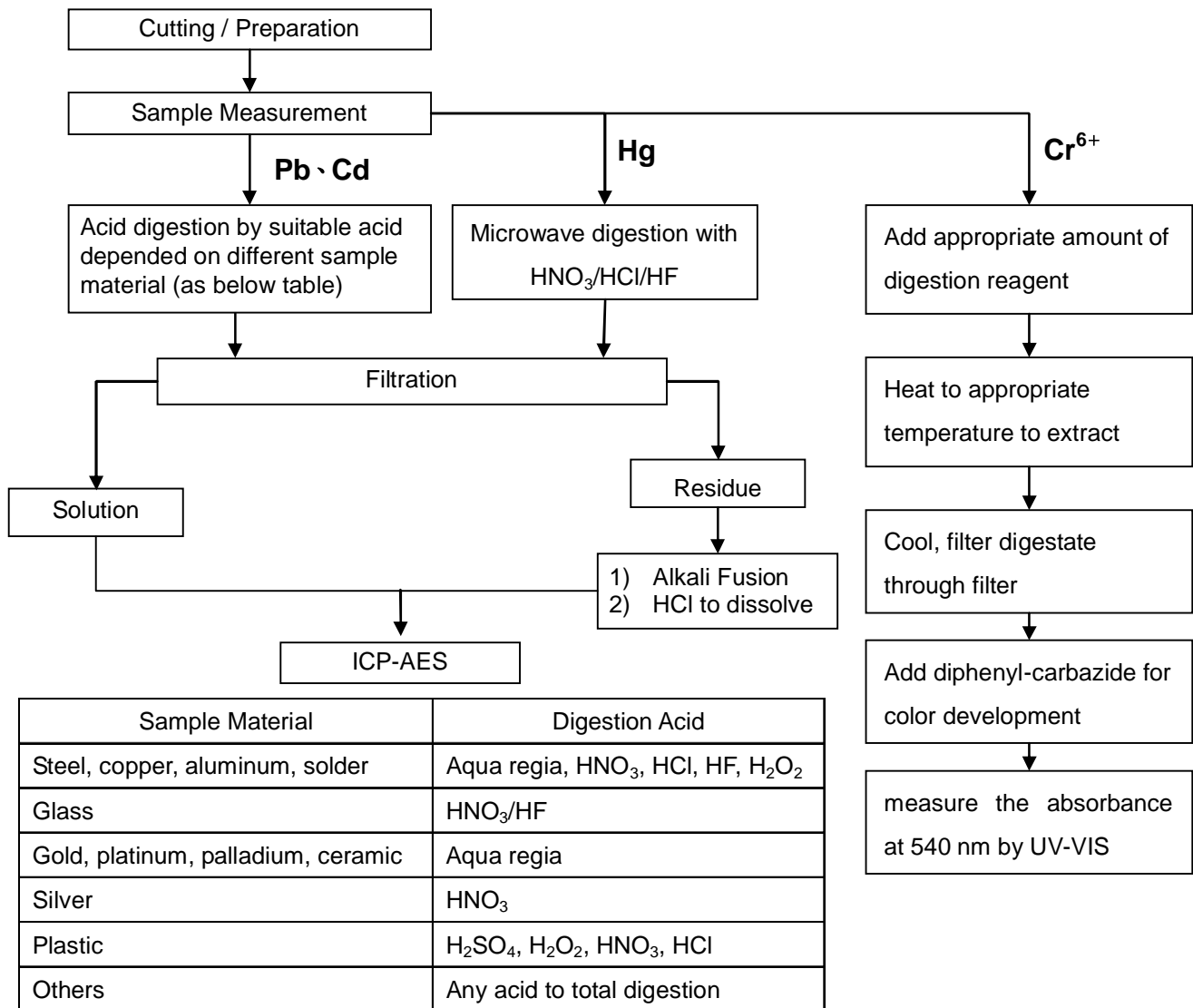
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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Test Report

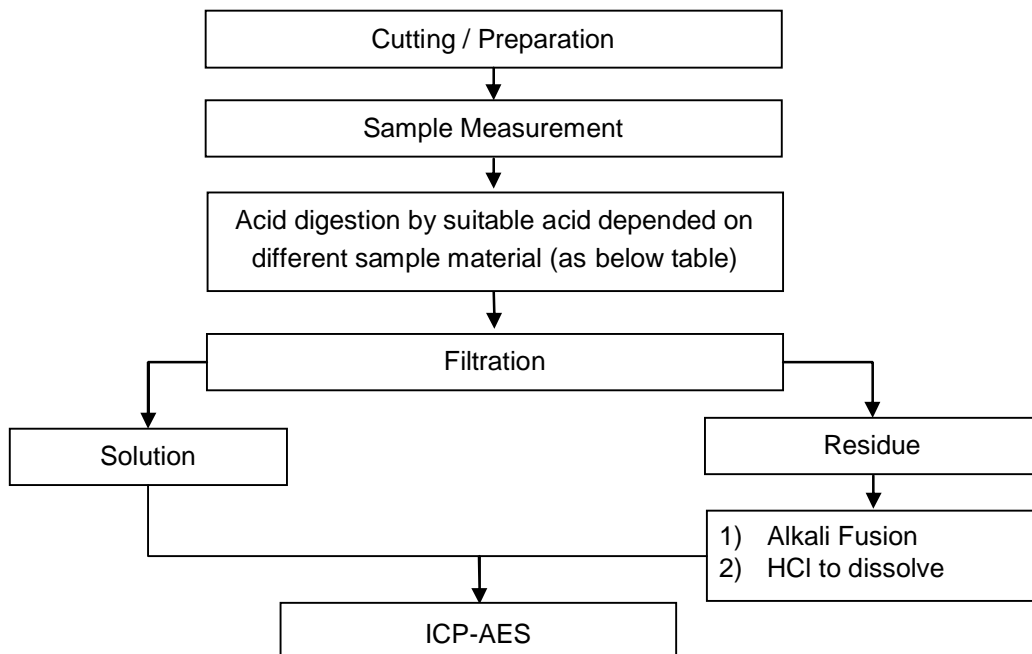
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of digestion for the elements analysis performed by ICP-AES



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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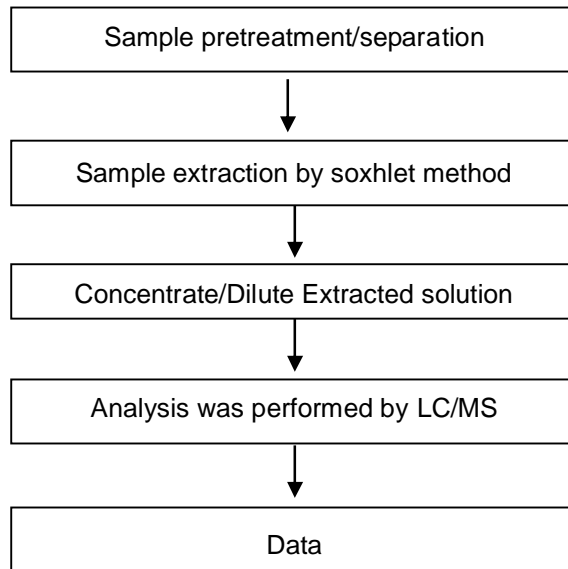
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA 、 Benzotriazole



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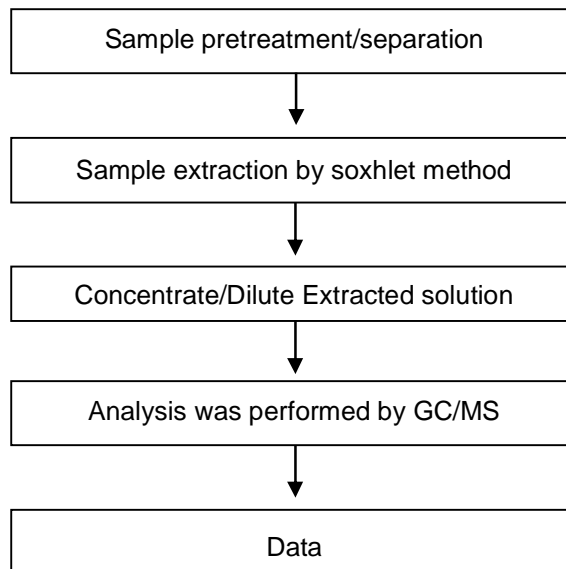
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: Phthalate 、 Benzotriazole 、 HBCDD 、 NP 、 DBBT 、
Organic phosphorus compounds



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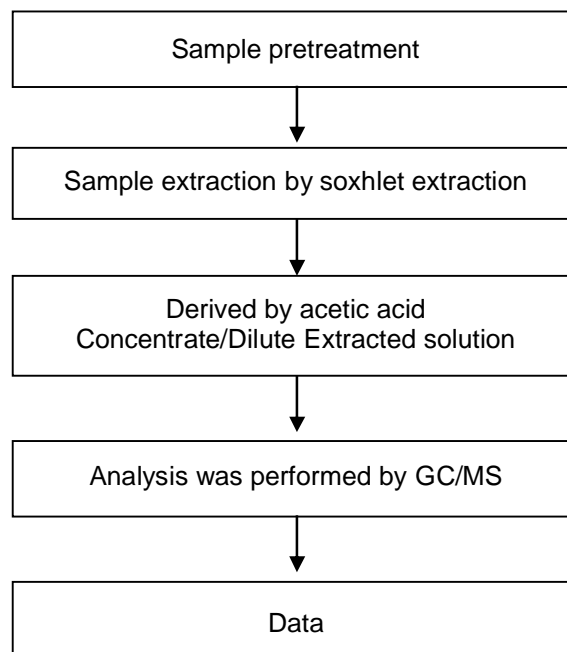
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Analytical flow chart

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: TBBP-A 、 Bisphenol A



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Test Report

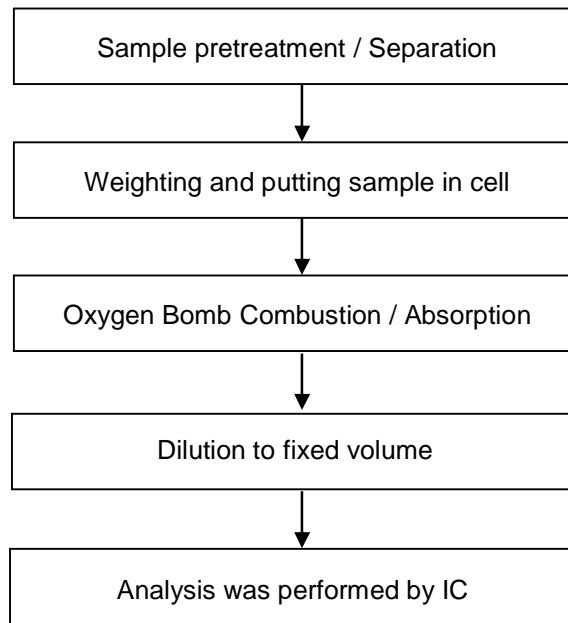
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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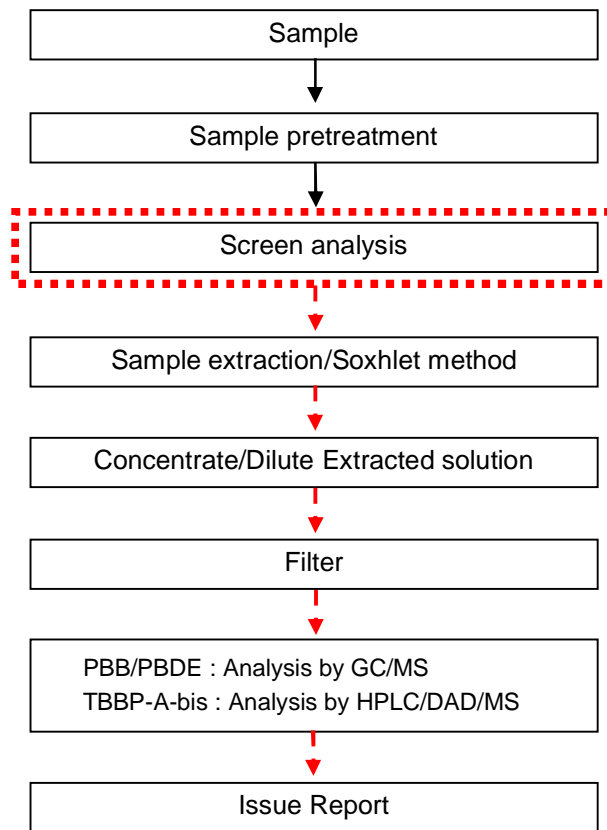


Analytical flow chart

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Troy Chang

■ Test Items: PBB/PBDE, TBBP-A-bis

First testing process —> Optional screen process Confirmation process - ->



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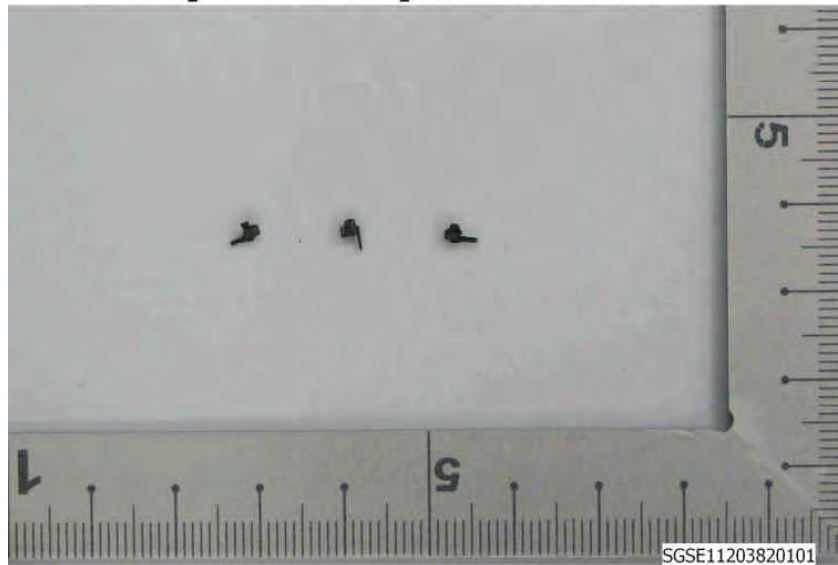
Test Report

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



CE/2011/20382



** End of Report **

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Test Report

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : MHF PLUG CONTACT
Style/Item No. : 1845-0**
Sample Receiving Date : 2011/02/15
Testing Period : 2011/02/15 TO 2011/02/22

=====
Test Result(s) : Please refer to next page(s).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Test Result(s)

PART NAME No.1 : PLATING LAYER OF GOLDEN COLORED METAL
PART NAME No.2 : BASE MATERIAL OF GOLDEN COLORED METAL

Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Cadmium (Cd)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	n.d.
Lead (Pb)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	22
Mercury (Hg)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	n.d.
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 6)	0.02mg/kg with 50 cm ² surface area	Negative	Negative
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	µg/m ²	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	1	n.d.	---

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Test Report

No. : CE/2011/22069 Date : 2011/02/22 Page : 3 of 7

I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. "---" = Not Conducted
5. ** = Qualitative analysis (No Unit)
6. Spot-test:
 Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;
 (The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;
 The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

PFOS Reference Information : Directive 2006/122/EC

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.

Test Report

No. : CE/2011/22069 Date : 2011/02/22 Page : 4 of 7

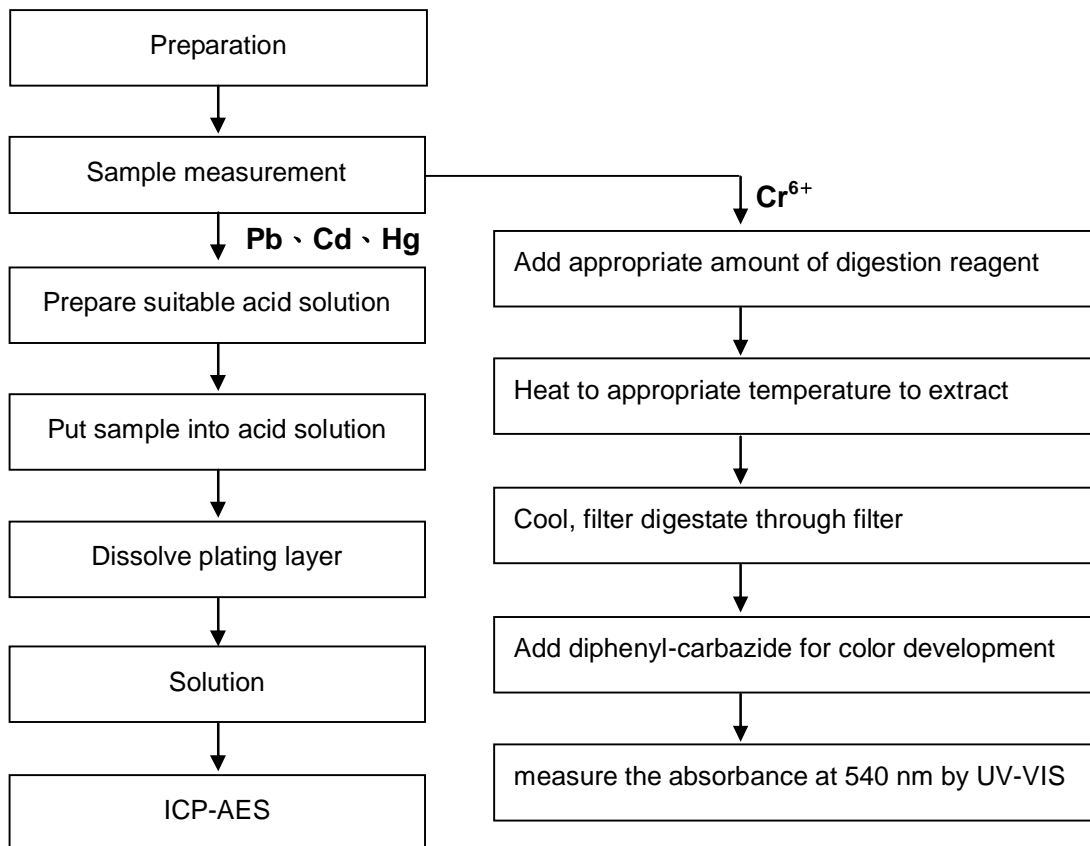
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



PART NAME No.1

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of Stripping method for metal analysis



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Test Report

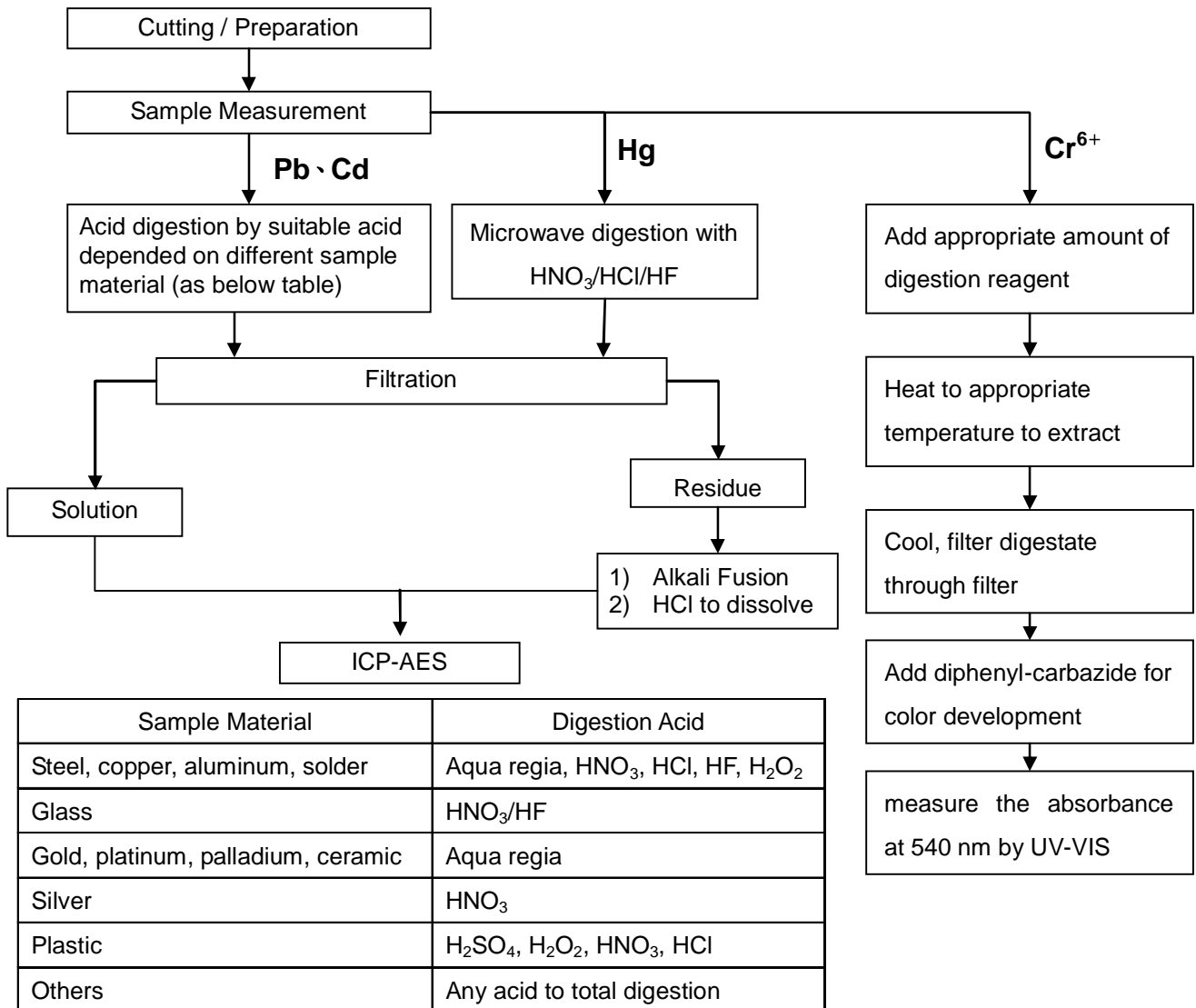
No. : CE/2011/22069 Date : 2011/02/22 Page : 5 of 7

I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



PART NAME No.2

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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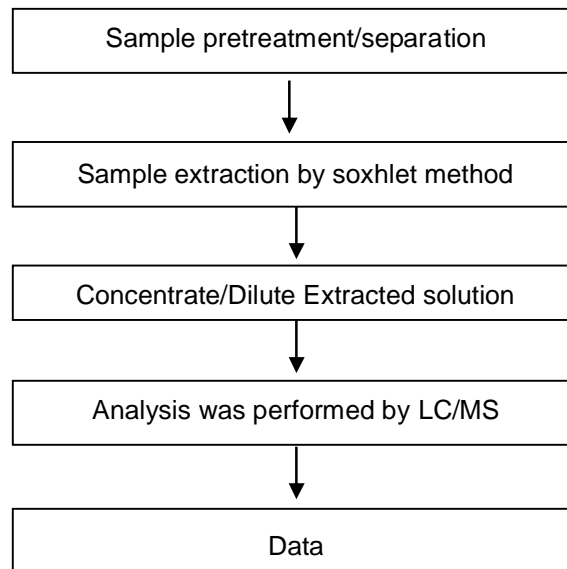
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA 、 Benzotriazole

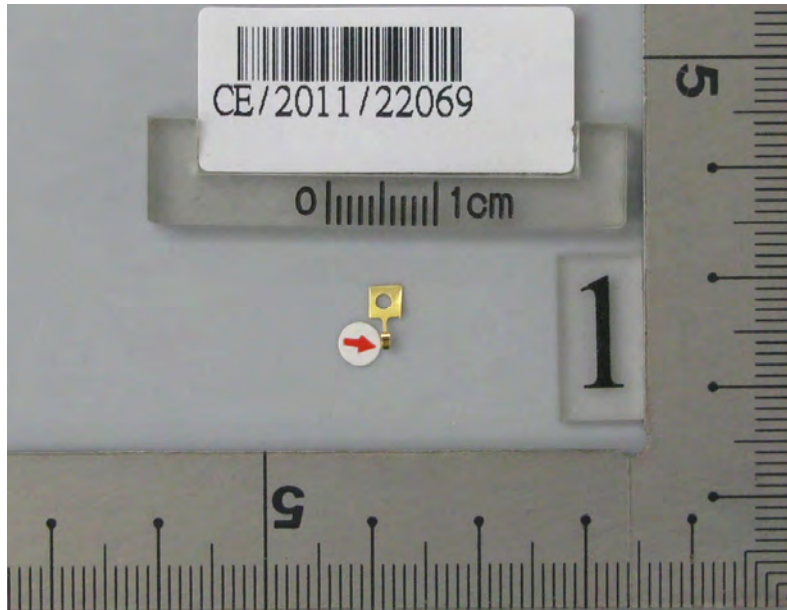


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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



**** End of Report ****

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : MHF RECE. GROUND CONTACT
Style/Item No. : 1848-001
Sample Receiving Date : 2011/02/15
Testing Period : 2011/02/15 TO 2011/02/22

=====
Test Result(s) : Please refer to next page(s).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Test Result(s)

PART NAME No.1 : PLATING LAYER OF GOLDEN COLORED METAL
PART NAME No.2 : BASE MATERIAL OF GOLDEN COLORED METAL

Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Cadmium (Cd)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	n.d.
Lead (Pb)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	16
Mercury (Hg)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	n.d.
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 6)	0.02mg/kg with 50 cm ² surface area	Negative	Negative
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	µg/m ²	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	1	n.d.	---

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Test Report

No. : CE/2011/22068 Date : 2011/02/22 Page : 3 of 7

I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. "---" = Not Conducted
5. ** = Qualitative analysis (No Unit)
6. Spot-test:
Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;
The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

PFOS Reference Information : Directive 2006/122/EC

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.

Test Report

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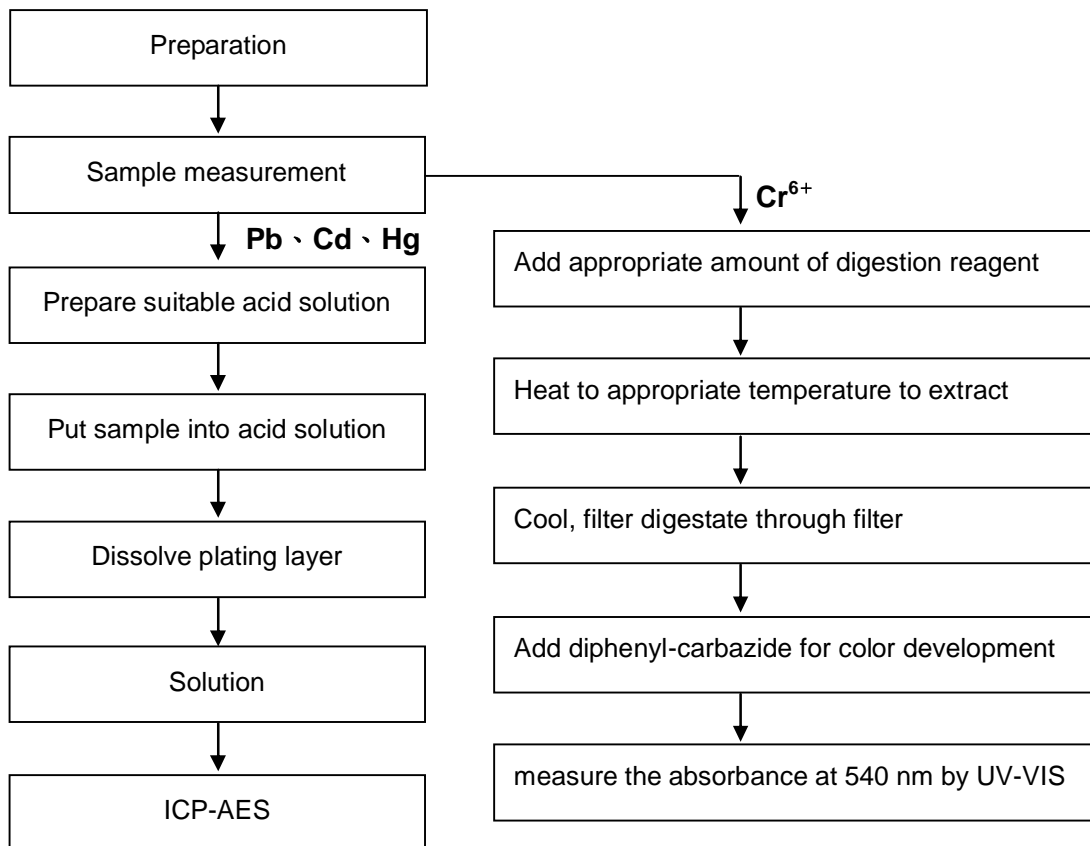
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



PART NAME No.1

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of Stripping method for metal analysis



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Test Report

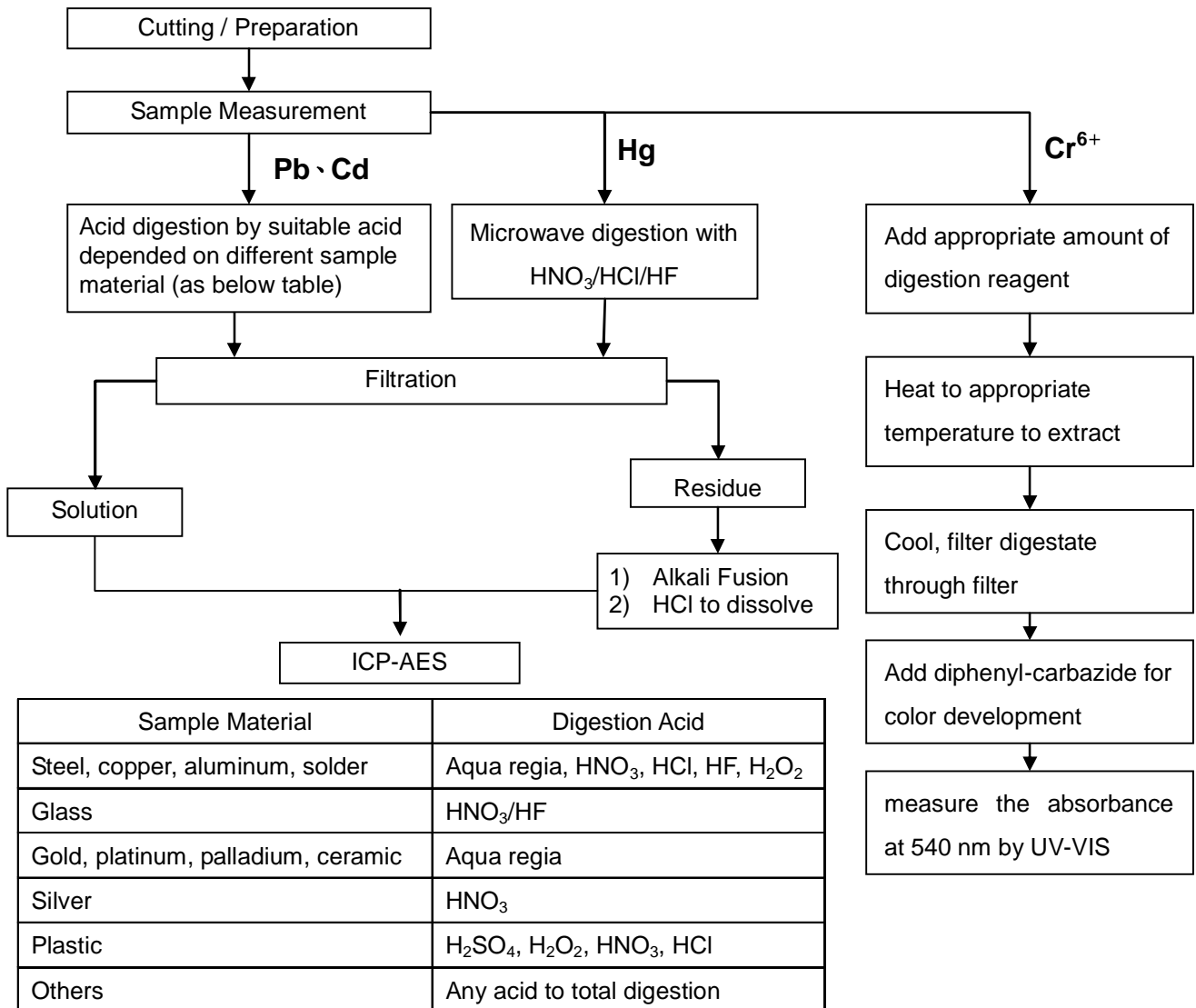
No. : CE/2011/22068 Date : 2011/02/22 Page : 5 of 7

I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



PART NAME No.2

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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Test Report

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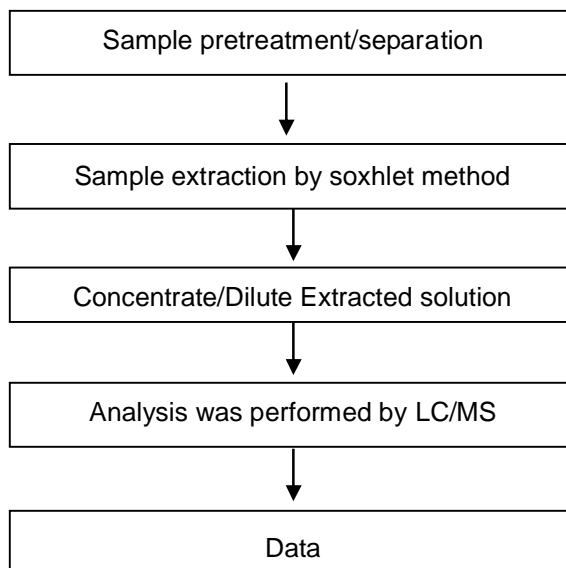
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA、Benzotriazole

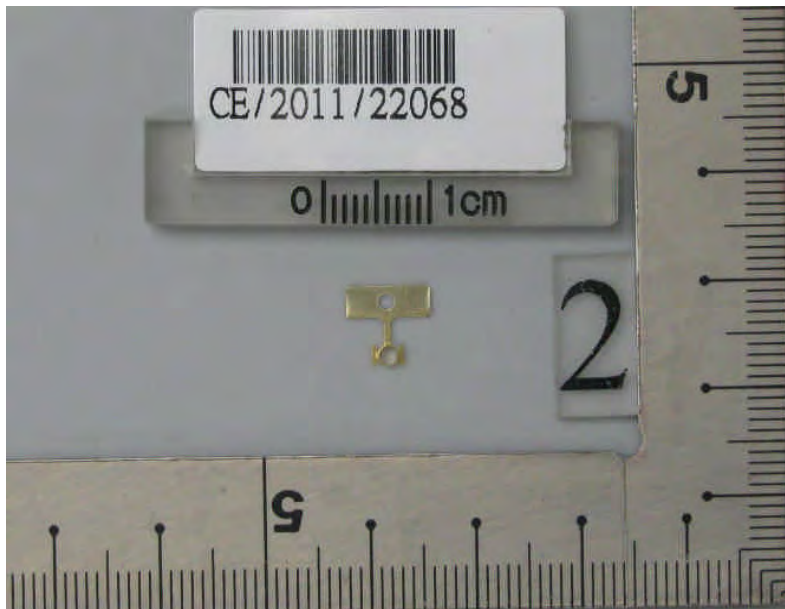
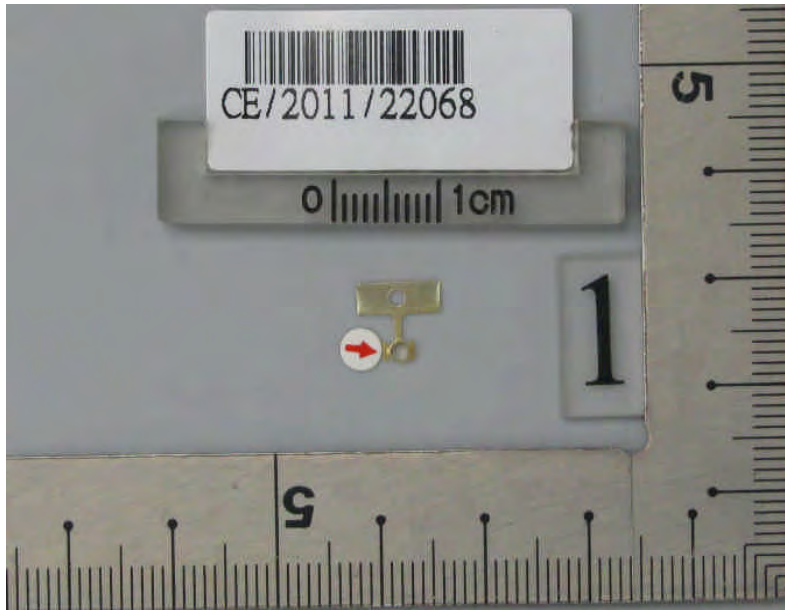


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Test Report

No. : CE/2011/22068 Date : 2011/02/22 Page : 7 of 7

I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



** End of Report **

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SPECIFICATION FOR APPROVAL

DOCUMENT: A3132TS001

STYLE : COAXIAL CABLE
105°C 30V

SIZE: 32AWG×1C
BRAID : TS

RECOGNIZED: UL 1979



WONDERFUL HI-TECH CO.,LTD.

OFFICE : 72WU KONG 6TH ROAD,
WU KU IND. DISTRICT
TAIPEI HSIEN,TAIWAN

FACTORY : 17 PEI YUAN ROAD,
CHUNG-LI IND. PARK
TAIWAN, R.O.C.

TEL : (02)22988033
FAX : (02)22988031-2

TEL : (03)4527777
FAX : (03)4517214

 **WONDERFUL HI-TECH CO., LTD.**
SPECIFICATION

STYLE	105°C 30V UL 1979	DOCUMENT NO : A3132TS001	
SIZE	32AWG	ESTABLISHED DATE: 2007/11/07	
STANDARD :			
Conductor	Size	AWG	32
	Material	----	Silver Cover Copper
	Conductors No.	----	7
	Conductors Size	mm	0.080
	O.D.	mm	0.24
Insulation	Average Thickness	mm	0.22
	Diameter	mm	0.68 ± 0.02
	Material	----	FEP
	Color	----	Clear
Braid	Material	----	Tinned Copper
	Construction	mm	16 / 4 / 0.050
	Coverage	%	90
Jacket	Average Thickness	mm	0.13
	Diameter	mm	1.13 ± 0.05
	Material	----	FEP
	Color	----	According to custom
Marking	Non		
Drawing			



WONDERFUL HI-TECH CO., LTD.

SPECIFICATION

Electrical & Physical Properties						
Item		32AWG				
Rating Temp Voltage		105°C 30V				
Conductor Resistance		545 OHM/KM/20°C MAX.				
Insulation Resistance		1000 MEGA OHM-KM MIN.				
Dielectric Strength		AC 500 V/Minute				
Spark Test		2.5 KV				
Insulation	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / m m ²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN. 75%(168HRS×232°C)			
		Elongation	UNAGED MIN. 75%(168HRS×232°C)			
Jacket	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / m m ²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN.75%(168HRS×232°C)			
		Elongation	UNAGED MIN.75%(168HRS×232°C)			
Nom. Impedance		50 ± 3 Ohms				
Nom. Capacitance		96 ± 3 pF/m				
Nom. Vel. of Prop.		69%				
VSWR Test (0 – 6 GHZ)		Max 1.3				
Flame Test		VW-1 OK				
Attenuation (dB/1m)	2.0GHZ		2.4GHZ	2.5GHZ	5.0GHZ	6.0 GHZ
	2.80		3.10	3.15	4.85	5.20



Aug. 12, 2010

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Re: Response to Request for ROHS-Related Information

Dear Valued Customer,

This letter is in response to your request for composition information, related to implementation of the European Union's Restriction on Hazardous Substances (RoHS) Directive (2002/95/EC), and the related Waste Electrical and Electronic Equipment (WEEE) Directive.

You requested information regarding the following 3M product(s):

3M Dyneon FEP 6322 Z

Due to the wide variation in content and format of such request forms, it is the policy of 3M Taiwan to provide letters, such as this one, in response to requests for regulatory information.

On behalf of 3M Company Taiwan, to the best of 3M Taiwan's knowledge, nothing else on the following table are intentionally added, in the product(s) listed above:

No.	Substance	Contain*
1.	Lead	Not Intentionally Added
2.	Cadmium	Not Intentionally Added
3.	Mercury	Not Intentionally Added
4.	Hexavalent chromium	Not Intentionally Added
5.	PBBs	Not Intentionally Added
6.	PBDEs	Not Intentionally Added
7.	Anthracene	Not Intentionally Added
8.	4,4'- Diaminodiphenylmethane	Not Intentionally Added
9.	Dibutyl phthalate	Not Intentionally Added
10.	Cobalt dichloride	Not Intentionally Added
11.	Diarsenic pentaoxide	Not Intentionally Added
12.	Diarsenic trioxide	Not Intentionally Added
13.	Sodium dichromate, dihydrate	Not Intentionally Added
14.	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	Not Intentionally Added
15.	Bis (2-ethyl(hexyl)phthalate) (DEHP)	Not Intentionally Added
16.	Hexabromocyclododecane (HBCDD)	Not Intentionally Added
17.	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	Not Intentionally Added
18.	Bis(tributyltin)oxide	Not Intentionally Added
19.	Lead hydrogen arsenate	Not Intentionally Added
20.	Triethyl arsenate	Not Intentionally Added
21.	Benzyl butyl phthalate	Not Intentionally Added
22.	Anthracene oil, CAS#90640-80-5, EC#292-602-7	Not Intentionally Added



Aug. 12, 2010

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23.	Anthracene oil, Anthracene paste, distn. Lights, CAS#91995-17-4, EC#295-278-5	Not Intentionally Added
24.	Anthracene oil, Anthracene paste, Anthracene fraction, CAS#91995-15-2, EC#295-275-9	Not Intentionally Added
25.	Anthracene oil, Anthracene-low, CAS#90640-82-7, EC#292-604-8	Not Intentionally Added
26.	Anthracene oil, Anthracene paste, CAS#90640-81-6, EC#292-603-2	Not Intentionally Added
27.	Coal tar pitch, high temperature, CAS#65996-93-2, EC#266-028-2	Not Intentionally Added
28.	Acrylamide, CAS#79-06-1, EC#201-173-7	Not Intentionally Added
29.	Aluminosilicate, Refractory Ceramic Fibre, EC#650-017-00-8	Not Intentionally Added
30.	Zirconia Aluminosilicate, Refractory Ceramic Fibres, EC#650-017-00-8	Not Intentionally Added
31.	2,4-Dinitrotoluene, CAS#121-14-2, EC#204-450-0	Not Intentionally Added
32.	Diisobutyl phthalate, CAS#84-69-5, EC#201-553-2	Not Intentionally Added
33.	Lead chromate, CAS#7758-97-6, EC#231-846-0	Not Intentionally Added
34.	Lead chromate molybdate sulphate red (C.I. Pigment Red 104), CAS#12656-85-8, EC#235-759-9	Not Intentionally Added
35.	Lead sulfochromate yellow (C.I. Pigment Yellow 34), CAS#1344-37-2, EC#215-693-7	Not Intentionally Added
36.	Tris(2-chloroethyl)phosphate, CAS#115-96-8, EC#204-118-5	Not Intentionally Added
37.	Trichloethlene, CAS#79-01-6, EC#201-167-4	Not Intentionally Added
38.	Boric Acid, CAS#10043-35-3/11113-50-1, EC#233-139-2/234-343-4	Not Intentionally Added
39.	Disodium tetraborate, anhydrous, CAS#1330-43-4/12179-04-3/1303-96-4, EC#215-540-4	Not Intentionally Added
40.	Tetracarbon disodium heptaoxide, hydrate, CAS#12267-73-1, EC#235-541-3	Not Intentionally Added
41.	Sodium chrome, CAS#7775-11-3, EC#231-889-5	Not Intentionally Added
42.	Potassium chrome, CAS#7789-00-6, EC#232-140-5	Not Intentionally Added
43.	Ammonium dichromate, CAS#7789-09-5, EC#232-143-1	Not Intentionally Added
44.	Potassium dichromate, CAS#7778-50-9, EC#231-906-6	Not Intentionally Added

**"Contain" or "Does Not Contain" means that the material is not intentionally added or is not present at or above 0.1%, or for cadmium is or is not present at or above 0.01%. These are the de minimis thresholds in the ELV EU Directive 2000/53/EC, Annex II (June 27, 2002), and the EU RoHS Directive (2002/95/EC) as amended by Commission Decision 2005/618/EC (establishing Maximum Concentration Values (MCVs) or the . The MCVs are by weight in homogeneous materials.

If a Material Safety Data Sheet (MSDS) is available for this product, the MSDS document number is shown above and the document may be obtained at www.3M.com. Section 3 of the MSDS lists the product ingredients and forms the basis for the composition review. The MSDS should be reviewed for additional safety, health, environmental and regulatory information.

In preparing this response, 3M Taiwan has relied in part on information provided by 3M suppliers.

The packaging and packaging components for the above-noted products comply with the CONEG and European Union requirements for heavy metal content in packaging materials: namely, that the sum of incidental concentration levels of lead, mercury, cadmium and hexavalent chromium present in any package



Aug. 12, 2010

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or packaging component do not exceed 100 parts per million by weight. In cases where the regulated materials are present at levels below a total of 100 ppm, the regulated metals were not intentionally added during the manufacturing process.

I trust the above information is responsive to your request.

Please contact me if there are any additional questions.

Sincerely,

Jeff Chang

Product Engineer, 3M Taiwan Ltd.

測試報告(SVHC)

Test Report

號碼(No.): CC/2010/A0026

日期(Date): 2010/10/12

頁數 : 1 of 19

紅帥工業股份有限公司

HONG SHUAY INDUSTRIAL CO., LTD.

桃園縣蘆竹鄉坑口村三德街54巷5號

NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : TIN COATED WIRE
收件日期(Sample Receiving Date) : 2010/10/06
測試期間(Testing Period) : 2010/10/06 TO 2010/10/12

=====
測試需求(Test Requested) : 38項高關注物質篩檢。高關注物質候選清單是根據歐洲化學總署(ECHA)於2010年6月18日，就關於REACH之Regulation (EC) No 1907/2006的公告。/ Thirty-Eight (38) Substances of Very High Concern (SVHC) screening. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2010 June 18, regarding Regulation (EC) No 1907/2006 concerning the REACH.

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

總結(Summary) : 根據指定規範和分析技術，送測樣品在現今報告限值下，高關注物質(SVHC)的濃度均小於0.1% (According to the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s)).


Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試報告(SVHC)

Test Report

號碼(No.): CC/2010/A0026

日期(Date): 2010/10/12

頁數 : 2 of 19

紅帥工業股份有限公司

HONG SHUAY INDUSTRIAL CO., LTD.

桃園縣蘆竹鄉坑口村三德街54巷5號

NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN

**測試樣品(Test Sample):** 銀色金屬線 (SILVER COLORED METAL WIRE)**測試方法:**

參照SGS內部方法RSTS-EE-SVHC-003, RSTS-EE-SVHC-004. 由感應耦合電漿原子發射光譜儀, 紫外光可見光譜儀, 氣相層析儀質譜儀, 液相層析質譜儀和氣相層析儀/火焰光度偵測器進行分析。(SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004. Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS and GC/FPD.)

備註:

- 38項SVHC化學分析, 依歐洲化學總署(ECHA)於2010年6月18日所公佈的清單, 藉由現有的分析技術進行篩檢。這清單是由ECHA所評估且未來可受更改。(The chemical analysis of 38 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2010 June 18. This list is under evaluation by ECHA and may subject to change in the future.)

請參照(refer to) http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

- 根據Regulation (EC) No 1907/2006 中第7條款第2項之規定, 如果物質合乎第57條款之標準以及可依據第59(1)條之規定鑑別, 且同時符合下列兩項狀況, 任何成品之製造人和進口人應向歐洲化學總署(ECHA)通報:

- 成品中所含物質每年超過1公噸。
- 依重量百分比計算, 物質濃度超過0.1%。

In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation,

if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).

- Regulation (EC) No 1907/2006中第 33 條要求成品供應商, 其成品所含物質符合第57條款的標準並依照第59(1)條款確定其濃度大於0.1wt%, 應提供成品接受者充份可取得資訊, 以確保成品的安全使用(至少包括物質的名稱)。

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

- 倘若SVHC超過限值, 建議客戶確認含有該SVHC的零件, 並要求實驗室進一步的定量分析而取得SVHC的確切濃度。

If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

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測試報告(SVHC)

Test Report

號碼(No.): CC/2010/A0026 日期(Date): 2010/10/12 頁數 : 3 of 19

紅帥工業股份有限公司

HONG SHUAY INDUSTRIAL CO., LTD.

桃園縣蘆竹鄉坑口村三德街54巷5號

NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN



測試結果 (Test Results)

物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限值 (RL)	分類 (Classification)
蒽 / Anthracene (CAS No.: 000120-12-7)	%	n.d.	0.005	長期生物蓄積性及毒性物質 (PBT)
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane (CAS No.: 000101- 77-9)	%	n.d.	0.005	致癌物質 類別 2 (Carcinogen Category 2)
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
鄰苯二甲酸甲苄基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
鄰苯二甲酸二 (2-乙基己基) 酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 000081- 15-2)	%	n.d.	0.005	高持久性和高生物蓄積性物質 (vPvB)
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 025637-99-4 and 003194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	%	n.d.	0.005	長期生物蓄積性及毒性物質 (PBT)
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8)	%	n.d.	0.01	長期生物蓄積性及毒性物質 (PBT)
三丁基錫氧化物 / Bis(tributyltin)oxide*** (CAS No.: 000056-35-9)	%	n.d.	-	長期生物蓄積性及毒性物質 (PBT)

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測試報告(SVHC)

Test Report

號碼(No.): CC/2010/A0026 日期(Date): 2010/10/12 頁數 : 4 of 19

紅帥工業股份有限公司

HONG SHUAY INDUSTRIAL CO., LTD.

桃園縣蘆竹鄉坑口村三德街54巷5號

NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN



物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限值 (RL)	分類 (Classification)
二氯化鈷 / Cobalt dichloride (CAS No.: 007646-79-9)	%	n.d.	0.005	致癌物質 類別 2 (Carcinogen Category 2)
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 001303-28-2)	%	n.d.	-	致癌物質 類別 1 (Carcinogen Category 1)
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 001327-53-3)	%	n.d.	-	致癌物質 類別 1 (Carcinogen Category 1)
三乙基砷酸鹽 / Triethyl arsenate*** (CAS No.: 015606-95-8)	%	n.d.	-	致癌物質 類別 1 (Carcinogen Category 1)
砷酸氫鉛 / Lead hydrogen arsenate*** (CAS No.: 007784-40-9)	%	n.d.	-	致癌物質 類別 1; 對生殖系統有害 類別1 (Carcinogen Category 1; Toxic to Reproduction Category 1)
鉻酸鈉 / Sodium chromate*** (CAS No.: 007775-11-3)	%	n.d.	-	致癌第二類; 致突變第二類; 繁殖 力毒性第二類 (Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2)
重鉻酸銨 / Ammonium dichromate*** (CAS No.: 007789-09-5)	%	n.d.	-	致癌第二類; 致突變第二類; 繁殖 力毒性第二類 (Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2)
重鉻酸鉀 / Potassium dichromate*** (CAS No.: 007778-50-9)	%	n.d.	-	致癌第二類; 致突變第二類; 繁殖 力毒性第二類 (Carcinogenic category 2; mutagenic category 2; toxic for reproduction category 2)

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測試報告(SVHC)

Test Report

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紅帥工業股份有限公司

HONG SHUAY INDUSTRIAL CO., LTD.

桃園縣蘆竹鄉坑口村三德街54巷5號

NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN



物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限值 (RL)	分類 (Classification)
鉻酸鉀 / Potassium chromate*** (CAS No.: 007789-00-6)	%	n.d.	-	致癌第二類; 致突變第二類 (Carcinogenic category 2; mutagenic category 2)
重鉻酸鈉 / Sodium dichromate*** (CAS No.: 010588-01-9(*))	%	n.d.	-	致癌物質 類別2; 導致基因突變 類別2; 對生殖系統有害 類別2 (Carcinogen Category 2; Mutagen Category 2; Toxic to Reproduction Category 2)
蔥油 / Anthracene oil (CAS No.: 090640-80-5) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2 (PBT; vPvB; Carcinogen Category 2)
蔥油, 蔥糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights (CAS No.: 091995-17-4) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2; 導致基因突變 類別 2 (PBT; vPvB; Carcinogen Category 2; Mutagen Category 2)
蔥油, 蔥糊, 蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 091995-15-2) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2; 導致基因突變 類別 2 (PBT; vPvB; Carcinogen Category 2; Mutagen Category 2)
蔥油, 含蔥量少 / Anthracene oil, anthracene-low (CAS No.: 090640-82-7) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2; 導致基因突變 類別 2 (PBT; vPvB; Carcinogen Category 2; Mutagen Category 2)

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物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限值 (RL)	分類 (Classification)
蒽油, 蒽糊 / Anthracene oil, anthracene paste (CAS No.: 090640-81-6) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2; 導致基因突變 類別 2 (PBT; vPvB; Carcinogen Category 2; Mutagen Category 2)
煤瀝青, 高溫 / Pitch, coal tar, high-temp. (CAS No.: 065996-93-2) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質; 高持久性和高生物蓄積性物質; 致癌物質 類別 2 (PBT; vPvB; Carcinogen Category 2)
矽酸鋁, 耐火陶瓷纖維 / Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	致癌物質 類別 2 (Carcinogen Category 2)
鋁矽酸鋁, 耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	致癌物質 類別 2 (Carcinogen Category 2)
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 000084-69-5)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
2,4-二硝基甲苯 / 2,4-Dinitrotoluene (CAS No.: 000121-14-2)	%	n.d.	0.005	致癌物質 類別 2 (Carcinogen Category 2)
磷酸三(2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 000115-96-8)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
鉻酸鉛 / Lead chromate (CAS No.: 007758-97-6)	%	n.d.	0.01	致癌物質 類別 2; 對生殖系統有害 類別1 (Carcinogen Category 2; Toxic to Reproduction Category 1)
鉬鉻紅; 顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 012656-85-8)	%	n.d.	0.01	致癌物質 類別 2; 對生殖系統有害 類別1 (Carcinogen Category 2; Toxic to Reproduction Category 1)

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物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限值 (RL)	分類 (Classification)
鉻酸鉛；顏色索引：顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 001344-37-2)	%	n.d.	0.01	致癌物質 類別 2；對生殖系統有害 類別1 (Carcinogen Category 2；Toxic to Reproduction Category 1)
丙烯醯胺 / Acrylamide (CAS No.: 000079-06-1)	%	n.d.	0.005	致癌物質 類別2；導致基因突變 類別2 (Carcinogen Category 2；Mutagen Category 2)
硼酸 / Boric acid*** (CAS No.: 010043-35-3； 011113-50-1)	%	n.d.	-	繁殖力毒性第二類 (Toxic for reproduction category 2)
無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 001303-96-4, 001330-43-4, 012179-04-3)	%	n.d.	-	繁殖力毒性第二類 (Toxic for reproduction category 2)
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 012267-73-1) (Note 8)	%	n.d.	-	繁殖力毒性第二類 (Toxic for reproduction category 2)
三氯乙烯 / Trichloroethylene (CAS No.: 000079-01-6)	%	n.d.	0.005	致癌第二類 (Carcinogenic category 2)

備註(Note)：

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d.= not detected = below Reporting Limit / 未檢出
3. RL = Reporting Limit / 報告極限值
4. 列於附錄A中之分類定義是根據67/548/EE以及Regulation (EC) No 1907/2006 (Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006)。
5. 各測試單元的濃度及重量請參閱附錄C. / Please refer to Appendix C to find the concentration and the weight of each tested unit.
6. (*): 重鉻酸鈉二水合物(CAS No.: 007789-12-0)含量 = 重鉻酸鈉含量 × 1.1374
(conc. of Sodium dichromate dihydrate = conc. of sodium dichromate × 1.1374)

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7. ***: 該物質是由"三丁基錫"或各別元素 (例如: 砷、鉛、六價鉻或硼)之測試結果計算得知。

The substance was calculated by the test results of Tributyl Tin or element (Ex. Arsenic, Lead, Cr(VI) or Boron respectively).

$$AX = A \times F$$

AX	A	F
五氧化二砷 / Diarsenic pentaoxide	砷 / Arsenic	1.5339
三氧化二砷 / Diarsenic trioxide		1.3203
三乙基砷酸鹽 / Triethyl arsenate		3.0179
砷酸氫鉛 / Lead hydrogen arsenate		4.6332
	鉛 / Lead	1.6753
三丁基錫氧化物 / Bis(tributyltin)oxide	三丁基錫 / Tributyl Tin (TBT)	1.0276
重鉻酸鈉 / Sodium dichromate	六價鉻 / Hexavalent Chromium Cr(VI)	2.5192
鉻酸鈉 / Sodium chromate		3.1151
重鉻酸銨 / Ammonium dichromate		2.4239
重鉻酸鉀 / Potassium dichromate		2.8289
鉻酸鉀 / Potassium chromate		3.7347
硼酸 / Boric acid	硼 / Boron (B)	5.7195
無水四硼酸二鈉 / Disodium tetraborate, anhydrous		4.6531
水合硼酸鈉(五水四硼酸二鈉) / Disodium tetraborate, pentahydrate		6.7361
水合硼酸鈉(十水四硼酸二鈉) / Disodium tetraborate, decahydrate		8.8191

"砷酸氫鉛"之濃度是取砷及鉛兩者各別換算出砷酸氫鉛濃度，並取其之最小值做為最後出報告之依據。

(Regarding lead hydrogen arsenate lead and arsenic are tested and used for the calculation of the separated concentration of lead hydrogen arsenate. The final concentration of lead hydrogen arsenate for the report uses the minimum value of above-mentioned two concentration of lead hydrogen arsenate.)

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測試結果如下(The test result is given as):

物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限值 (RL)
三丁基錫 / Tributyl Tin (TBT)	%	n.d.	0.005
砷 / Arsenic (As)	%	n.d.	0.005
鉛 / Lead (Pb)	%	n.d.	0.005
六價鉻 / Hexavalent Chromium Cr(VI)	%	n.d.	0.005
硼 / Boron (B)	%	n.d.	0.005

8. 依照歐洲化學總署解釋以無水四硼酸二鈉數據作為代表(歐洲化學總署回信編號 Ref no.: INC 000000032519) / Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
9. (**): 上述混合物的濃度是經由所獲得的成分比例介於被選擇標靶物及混合物所推估出來。 / The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
10. "-" = Not Regulated (無規格值)

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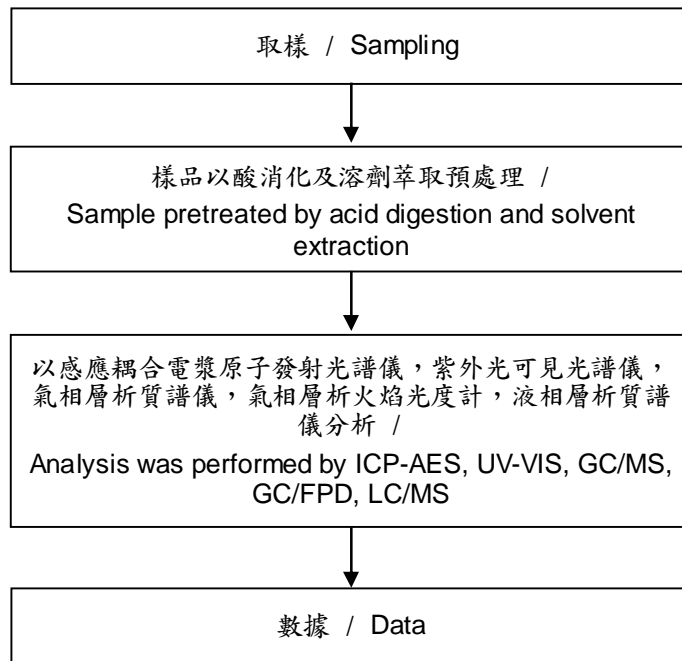
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SVHC 分析流程圖 / Analytical flow chart of SVHC

- 1) 測試人員：翁賜彬/傅莉雅/周穗華/楊登偉 / Name of the person who made measurement:
Roman Wong/Lydia Fu/ Stacy Chou/ Climbgreat Yang
- 2) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung



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【附錄 (Appendix) A】

分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義 (Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
致癌物質 類別1 (Carcinogen Category 1):	已知會對人類致癌的物質。有足夠的證據證明人體暴露於該物質和癌症發展之間有相互的關聯性 (Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer)。
致癌物質 類別 2 (Carcinogen Category 2):	應被視為可能對人體會導致致癌的物質。有足夠的證據強力推論人體暴露於該物質可能導致癌症發展，上述基於下列研究所得之結果 (Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer. Generally on the basis of): <ul style="list-style-type: none"> - 適當的長期動物實驗 (appropriate long-term animal studies)。 - 其他相關資訊 (other relevant information)。
導致基因突變 類別1 (Mutagen Category 1):	已知會對人類導致基因突變的物質。有足夠的證據證明人體暴露於該物質和遺傳基因損害之間有相互的關聯性 (Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage)。
導致基因突變 類別2 (Mutagen Category 2):	應被視為是否對人體會導致基因突變的物質。有足夠的證據強力推論人體暴露於該物質可能導致遺傳基因損害，上述基於下列研究所得之結果 (Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of): <ul style="list-style-type: none"> - 適當的長期動物實驗 (appropriate animal studies)。 - 其他相關資訊 (other relevant information)。
對生殖系統有害 類別1 (Toxic to Reproduction Category 1):	已知會損害人體生殖能力的物質。有足夠的證據證明人體暴露於該物質和生殖能力削弱之間有相互的關聯性 (Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility)。 已知會在人體引起毒性的物質。有足夠的證據證明人體暴露於該物質和其後產生之毒性對後代造成影響有相互之關聯性 (Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny)。

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紅帥工業股份有限公司

HONG SHUAY INDUSTRIAL CO., LTD.

桃園縣蘆竹鄉坑口村三德街54巷5號

NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN



分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義 (Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
<p>對生殖系統有害 類別2 (Toxic to Reproduction Category 2) :</p>	<p>應被視為可能會損害人體生殖能力的物質。有足夠的證據證明人體暴露於該物質可能導致損害人體生殖能力的有力推論，上述基於下列研究所得之結果 (Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of) :</p> <ul style="list-style-type: none"> - 缺少毒性作用的生殖能力削弱動物實驗中的明顯證據，或在同使用量下其他毒性作用但不是其他毒性作用的輔助非特定結果的生殖能力削弱證據 (clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects) - 其他相關資訊 (other relevant information) <p>應被視為可能在人體引起毒性發展的物質有足夠的證據提供人體暴露於該物質可能引起毒性發展的有力推論，整體而言是基於 (Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of) :</p> <ul style="list-style-type: none"> - 在適當動物實驗研究所進行缺乏顯著母體毒性徵象或在同使用量下其他毒性作用但不是其他毒性作用的輔助非特定結果的生殖能力削弱證據觀察，所得到之明顯結果 (clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects)。 - 其他相關資訊 (other relevant information)
<p>長期生物蓄積性及毒性物質 & 高持久性和高生物蓄積性物質 (PBT & vPvB):</p>	<p>長期生物蓄積性及毒性物質 (PBT) 或高持久性和高生物蓄積性物質 (vPvB) 造成化學安全管理上特別挑戰。這些物質在環境中無法用一個"安全"濃度建立足夠的可靠度。 / Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.</p>

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紅帥工業股份有限公司

HONG SHUAY INDUSTRIAL CO., LTD.

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NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN



【附錄 (Appendix) B】

SVHC 調查表(SURVEY FORM)			
公司名稱(Company Name): 紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.)			
樣品名稱(Product Name): TIN COATED WIRE			
產品/取樣重量(Product/Sampling weight): 30 g			
報告號碼(Report No.): CC/2010/A0026			
物質鑑定(Substance identification)			
物質名稱 (Substance name)	成品濃度 (Concentration) (%)	重量 (weight) (mg)	安全資訊的提供, 根據Article 33 (providing information about safe use according to Article 33 is necessary)
蒽/ Anthracene	n.d.	N/A	No
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane	n.d.	N/A	No
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate)	n.d.	N/A	No
鄰苯二甲酸甲苄基丁酯 / BBP (Benzyl butyl phthalate)	n.d.	N/A	No
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate)	n.d.	N/A	No
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	N/A	No
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)	n.d.	N/A	No
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	N/A	No
三丁基錫氧化物 / Bis(tributyltin)oxide	n.d.	N/A	No
二氯化鈷 / Cobalt dichloride	n.d.	N/A	No
五氧化二砷 / Diarsenic pentoxide	n.d.	N/A	No
三氧化二砷 / Diarsenic trioxide	n.d.	N/A	No
三乙基砷酸鹽 / Triethyl arsenate	n.d.	N/A	No

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物質名稱 (Substance name)	成品濃度 (Concentration) (%)	重量 (weight) (mg)	安全資訊的提供, 根據Article 33 (providing information about safe use according to Article 33 is necessary)
砷酸氫鉛 / Lead hydrogen arsenate	n.d.	N/A	No
鉻酸鈉 / Sodium chromate	n.d.	N/A	No
重鉻酸銨 / Ammonium dichromate	n.d.	N/A	No
重鉻酸鉀 / Potassium dichromate	n.d.	N/A	No
鉻酸鉀 / Potassium chromate	n.d.	N/A	No
重鉻酸鈉 / Sodium dichromate	n.d.	N/A	No
蔥油 / Anthracene oil	n.d.	N/A	No
蔥油, 蔥糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights	n.d.	N/A	No
蔥油, 蔥糊, 蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction	n.d.	N/A	No
蔥油, 含蔥量少 / Anthracene oil, anthracene-low	n.d.	N/A	No
蔥油, 蔥糊 / Anthracene oil, anthracene paste	n.d.	N/A	No
煤瀝青, 高溫 / Pitch, coal tar, high-temp.	n.d.	N/A	No
矽酸鋁, 耐火陶瓷纖維 / Aluminosilicate, Refractory Ceramic Fibres	n.d.	N/A	No
鋯矽酸鋁, 耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	n.d.	N/A	No
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate)	n.d.	N/A	No
2,4-二硝基甲苯 / 2,4-Dinitrotoluene	n.d.	N/A	No
磷酸三(2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP)	n.d.	N/A	No
鉻酸鉛 / Lead chromate	n.d.	N/A	No
鉬鉻紅; 顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	N/A	No
鉻酸鉛; 顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	N/A	No

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物質名稱 (Substance name)	成品濃度 (Concentration) (%)	重量 (weight) (mg)	安全資訊的提供, 根據Article 33 (providing information about safe use according to Article 33 is necessary)
丙烯醯胺 / Acrylamide	n.d.	N/A	No
硼酸 / Boric acid	n.d.	N/A	No
無水四硼酸二鈉 / Disodium tetraborate, anhydrous	n.d.	N/A	No
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate	n.d.	N/A	No
三氯乙烯 / Trichloroethylene	n.d.	N/A	No

備註(Note): N/A = 不適用 (Non-Available)

【附錄 (Appendix) C】

測試單元(Tested Unit)No.1: 銀色金屬線 (SILVER COLORED METAL WIRE) (重量Weight: 30g)

物質名稱 (Substance Name)	濃度 (Concentration) (%)	報告極限值 (RL)	樣品圖 (Sample Picture)
蒽 / Anthracene	n.d.	0.005	
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane	n.d.	0.005	
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate)	n.d.	0.005	
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate)	n.d.	0.005	
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate)	n.d.	0.005	
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	0.005	
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)	n.d.	0.005	

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NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN



物質名稱 (Substance Name)	濃度 (Concentration) (%)	報告 極限值 (RL)	樣品圖 (Sample Picture)
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	0.01	
三丁基錫 / Tributyl Tin (TBT)	n.d.	0.005	
三丁基錫氧化物 / Bis(tributyltin)oxide	n.d.	-	
二氯化鈷 / Cobalt dichloride	n.d.	0.005	
砷 / Arsenic (As)	n.d.	0.005	
五氧化二砷 / Diarsenic pentaoxide	n.d.	-	
三氧化二砷 / Diarsenic trioxide	n.d.	-	
三乙基砷酸鹽 / Triethyl arsenate	n.d.	-	
鉛 / Lead (Pb)	n.d.	0.005	
砷酸氫鉛 / Lead hydrogen arsenate	n.d.	-	
六價鉻 / Hexavalent Chromium Cr(VI)	n.d.	0.005	
鉻酸鈉 / Sodium chromate	n.d.	-	
重鉻酸銨 / Ammonium dichromate	n.d.	-	
重鉻酸鉀 / Potassium dichromate	n.d.	-	
鉻酸鉀 / Potassium chromate	n.d.	-	
重鉻酸鈉 / Sodium dichromate	n.d.	-	
蒽油 / Anthracene oil	n.d.	0.05	
蒽油, 蒽糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights	n.d.	0.05	
蒽油, 蒽糊, 蒽餾分 / Anthracene oil, anthracene paste, anthracene fraction	n.d.	0.05	
蒽油, 含蒽量少 / Anthracene oil, anthracene-low	n.d.	0.05	
蒽油, 蒽糊 / Anthracene oil, anthracene paste	n.d.	0.05	
煤瀝青, 高溫 / Pitch, coal tar, high-temp.	n.d.	0.05	
矽酸鋁, 耐火陶瓷纖維 / Aluminosilicate, Refractory Ceramic Fibres	n.d.	0.05	

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物質名稱 (Substance Name)	濃度 (Concentration) (%)	報告 極限值 (RL)	樣品圖 (Sample Picture)
鋁矽酸鋁, 耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	n.d.	0.05	
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate)	n.d.	0.005	
2,4-二硝基甲苯 / 2,4-Dinitrotoluene	n.d.	0.005	
磷酸三(2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP)	n.d.	0.005	
鉻酸鉛 / Lead chromate	n.d.	0.01	
鉬鉻紅; 顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	0.01	
鉻酸鉛; 顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	0.01	
丙烯醯胺 / Acrylamide	n.d.	0.005	
硼 / Boron (B)	n.d.	0.005	
硼酸 / Boric acid	n.d.	-	
無水四硼酸二鈉 / Disodium tetraborate, anhydrous	n.d.	-	
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate	n.d.	-	
三氯乙烯 / Trichloroethylene	n.d.	0.005	

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備註:

1. 整個成品的平均濃度可以依據下列公式被計算得之。(The average concentration of a whole article can be calculated per the following formula.)

$$C_{Average\ of\ Article} = \frac{\sum_{i=n} (C_i * W_i)}{\sum_{i=n} (W_i)}$$

C_i : 單一SVHC測項在各測試單元中的濃度(Concentration of a SVHC item in each tested unit)

W_i : 各測試單元的重量 (Weight of each tested unit)

$C_{Average\ of\ Article}$: 整個成品的平均濃度 (Average concentration of a whole article)

** 報告結尾(End of Report) **

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測試報告 Test Report

號碼(No.): CE/2010/50780 日期(Date): 2010/05/11 頁數(Page): 1 of 4

仁親銅導體股份有限公司

REN CHIN ELECTRIC CONDUCTOR CO., LTD.

苗栗縣竹南鎮新南里7鄰三角店29之1號

NO. 29-1, SAN JYUE DIAN, SHSING NAN LI, CHU NAN, MIAOLI, TAIWAN R. O. C.



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : 鍍銀銅線 (SILVER-PLATED COPPER WIRE)
買主/訂單號碼(Buyer/Order No.) : AECI, LG, SAMSUNG, PANASONIC, PIONEER, TOSHIBA
收件日期(Sample Receiving Date) : 2010/05/06
測試期間(Testing Period) : 2010/05/06 TO 2010/05/11

=====
測試需求(Test Requested) : 參照 RoHS 2002/95/EC 及其修定指令要求。 (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).
測試方法(Test Method) : 參考 IEC 62321: 2008 方法檢測。 (With reference to IEC 62321: 2008. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).
(1) 以感應耦合電漿原子發射光譜儀檢測鎘含量。 / Determination of Cadmium by ICP-AES.
(2) 以感應耦合電漿原子發射光譜儀檢測鉛含量。 / Determination of Lead by ICP-AES.
(3) 以感應耦合電漿原子發射光譜儀檢測汞含量。 / Determination of Mercury by ICP-AES.
(4) 以 Spot test / boiling water extraction 方法檢測六價鉻含量。 / Determination of Hexavalent Chromium by Spot test / boiling water extraction Method.
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

Nicole Chien / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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測試報告 Test Report

號碼(No.): CE/2010/50780

日期(Date): 2010/05/11

頁數(Page): 2 of 4

仁親銅導體股份有限公司

REN CHIN ELECTRIC CONDUCTOR CO., LTD.

苗栗縣竹南鎮新南里7鄰三角店29之1號

NO. 29-1, SAN JYUE DIAN, SHSING NAN LI, CHU NAN, MIAOLI, TAIWAN R. O. C.



測試結果(Test Results) 單位(Unit): mg/kg

測試項目 (Test Items)	測試方法 Method (Refer to)	結果 (Result)	方法偵測 極限值 (MDL)
		No.1	
鎘 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	n.d.	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4

測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 銀色金屬線 (含鍍層) (SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER))

備註(Note):

1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = Not Detected (未檢出)

3. MDL = Method Detection Limit (方法偵測極限值)

4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed. (當該測項無法確認時, 測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area. / 該溶液濃度 \geq 0.02 mg/kg with 50 cm² (sample surface area)

5. 樣品的測試是基於申請人要求混合測試, 報告中的混合測試結果不代表其中個別單一材質的含量。

(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value).

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測試報告 Test Report

號碼(No.): CE/2010/50780

日期(Date): 2010/05/11

頁數(Page): 3 of 4

仁親銅導體股份有限公司

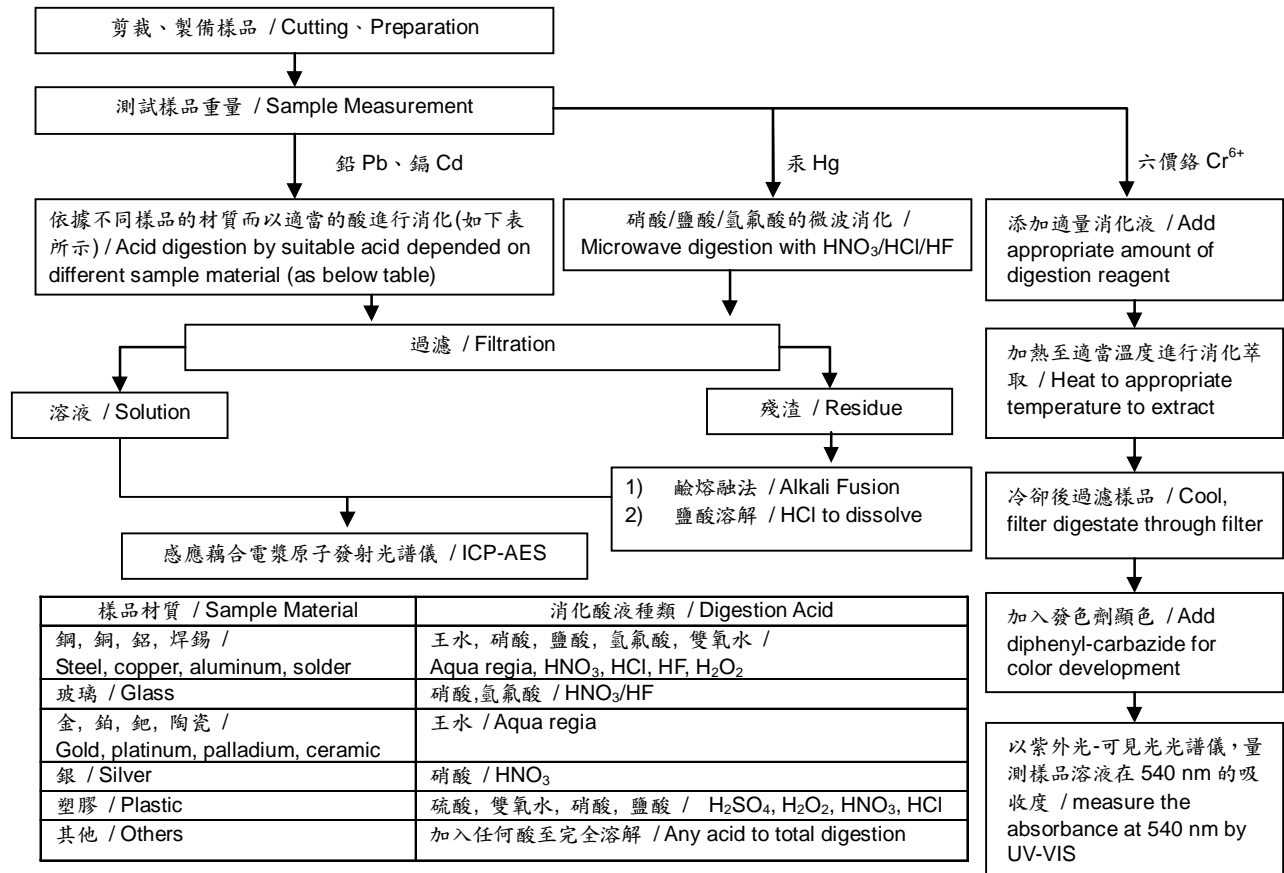
REN CHIN ELECTRIC CONDUCTOR CO., LTD.

苗栗縣竹南鎮新南里7鄰三角店29之1號

NO. 29-1, SAN JYUE DIAN, SHSING NAN LI, CHU NAN, MIAOLI, TAIWAN R. O. C.



- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告 Test Report

號碼(No.): CE/2010/50780

日期(Date): 2010/05/11

頁數(Page): 4 of 4

仁親銅導體股份有限公司

REN CHIN ELECTRIC CONDUCTOR CO., LTD.

苗栗縣竹南鎮新南里7鄰三角店29之1號

NO. 29-1, SAN JYUE DIAN, SHSING NAN LI, CHU NAN, MIAOLI, TAIWAN R. O. C.



** 報告結尾(End of Report) **

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測試報告 Test Report

號碼(No.): CE/2010/A0688 日期(Date): 2010/10/12 頁數(Page): 1 of 4

紅帥工業股份有限公司

HONG SHUAY INDUSTRIAL CO., LTD.

桃園縣蘆竹鄉坑口村三德街54巷5號

NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : TIN COATED WIRE
收件日期(Sample Receiving Date) : 2010/10/06
測試期間(Testing Period) : 2010/10/06 TO 2010/10/12

=====
測試需求(Test Requested) : 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).

測試方法(Test Method) : 參考 IEC 62321: 2008 方法檢測. (With reference to IEC 62321: 2008. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).

- (1) 以感應耦合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.
- (2) 以感應耦合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
- (3) 以感應耦合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
- (4) 以 Spot test / boiling water extraction 方法檢測六價鉻含量. / Determination of Hexavalent Chromium by Spot test / boiling water extraction Method.

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


Nicole Chien, Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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測試報告

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HONG SHUAY INDUSTRIAL CO., LTD.

桃園縣蘆竹鄉坑口村三德街54巷5號

NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN



測試結果(Test Results) 單位(Unit): mg/kg

測試項目 (Test Items)	測試方法 Method (Refer to)	結果 (Result)	方法偵測 極限值 (MDL)
		No.1	
鎘 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	n.d.	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4

測試部位描述 (TEST PART DESCRIPTION):

No.1 : 銀色金屬線 (SILVER COLORED METAL WIRE)

備註(Note):

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed. (當該測項無法確認時, 測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area. / 該溶液濃度 \geq 0.02 mg/kg with 50 cm² (sample surface area)

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日期(Date): 2010/10/12

頁數(Page): 3 of 4

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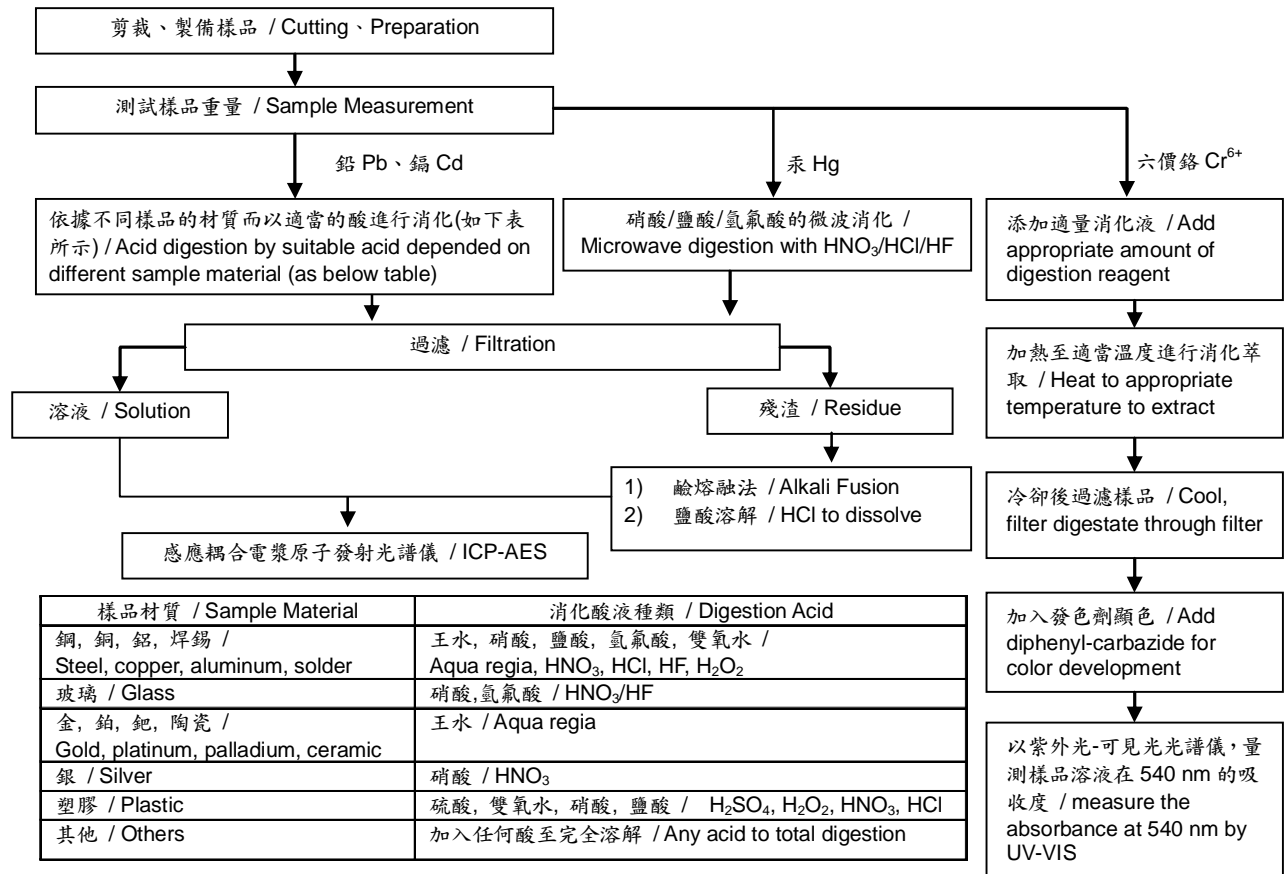
HONG SHUAY INDUSTRIAL CO., LTD.

桃園縣蘆竹鄉坑口村三德街54巷5號

NO. 5, LANE 54, SANDE ST., LUJHU TOWNSHIP, TAOYUAN COUNTY 338, TAIWAN



- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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Test Report

No. SHAEC1003641101

Date: 07 Apr 2010

Page 1 of 6

SHANGHAI COLORANT CHROMATICS.CO.,LTD.

1607 LIAN ROAD,MIN HANG DISTRICT.SHANGHAI,201100,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : FEP
COLORMASTERBATCH

SGS Job No. : SP10-010215 - SH
Lot No. : S0909107
Date of Sample Received : 01 Apr 2010
Testing Period : 01 Apr 2010 - 07 Apr 2010
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted samples, the results comply with the
RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.



Hao Jinyu, Sandy
Lab Manager

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA10-036411.001	Black plastic pellet

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2002/95/EC

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report

No. SHAEC1003641101

Date: 07 Apr 2010

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

- (1) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

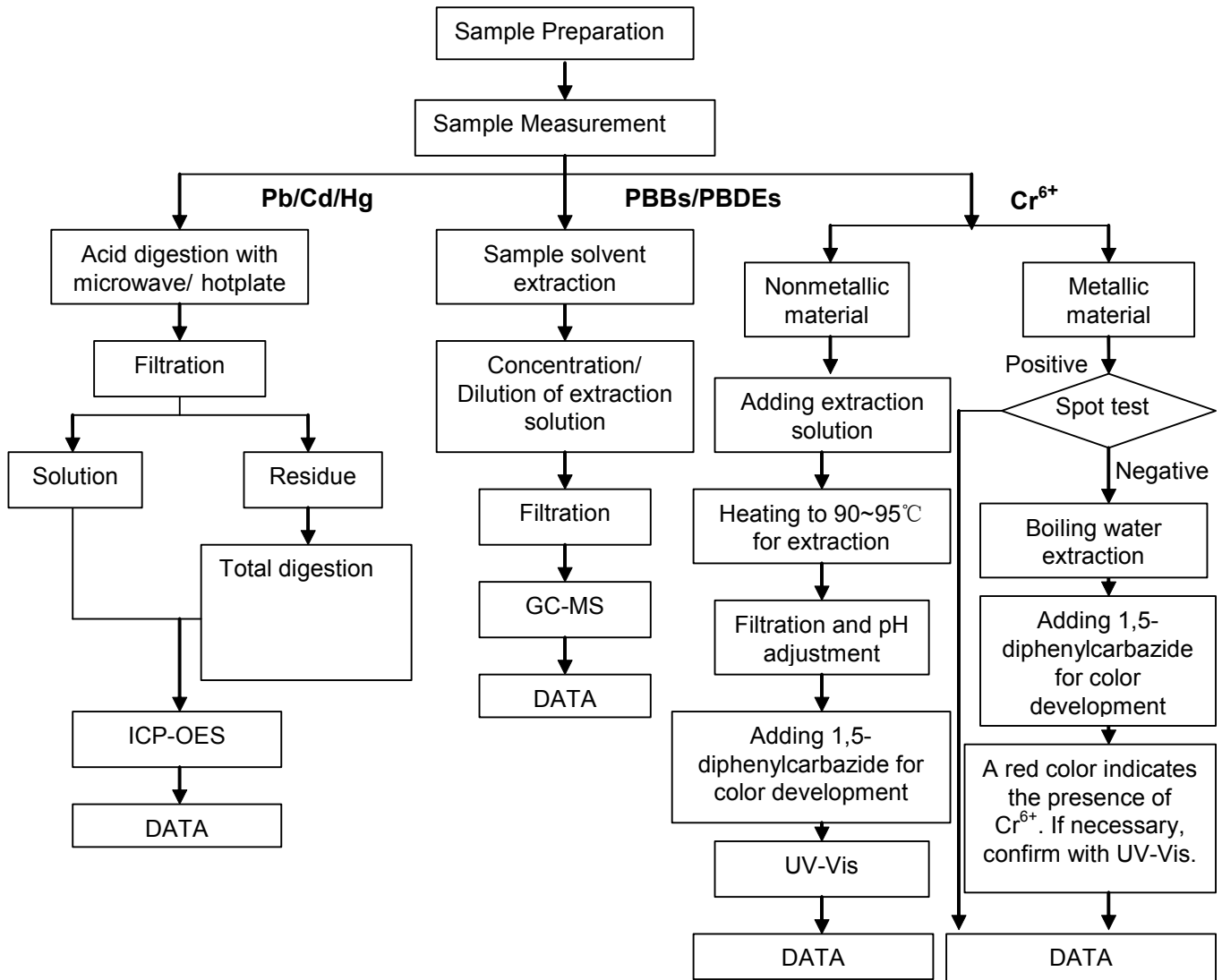
<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

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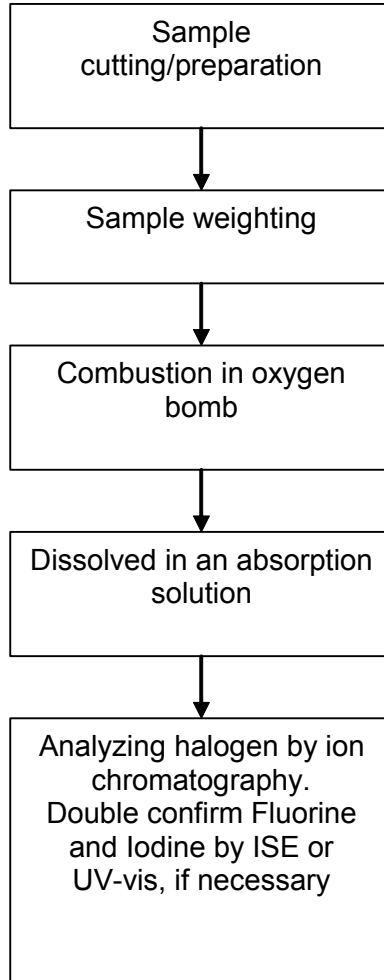
- 1) Name of the person who made measurement: Allan Xiao/Spring Zuo/Frank Fang/ Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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Halogen Measurement Flowchart for sample



Tested by : Daisy Gong
Checked by : Alex Jiang

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Sample photo:



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Test Report

No. SHAEC1003641106

Date: 07 Apr 2010

Page 1 of 6

SHANGHAI COLORANT CHROMATICS.CO.,LTD.

1607 LIAN ROAD,MIN HANG DISTRICT.SHANGHAI,201100,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : FEP
COLORMASTERBATCH

SGS Job No. : SP10-010215 - SH
Lot No. : S0912109
Date of Sample Received : 01 Apr 2010
Testing Period : 01 Apr 2010 - 07 Apr 2010
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted samples, the results comply with the
RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.



Hao Jinyu, Sandy
Lab Manager

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA10-036411.006	Grey plastic pellet

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2002/95/EC

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Unit	MDL	006
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report

No. SHAEC1003641106

Date: 07 Apr 2010

Page 3 of 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

- (1) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

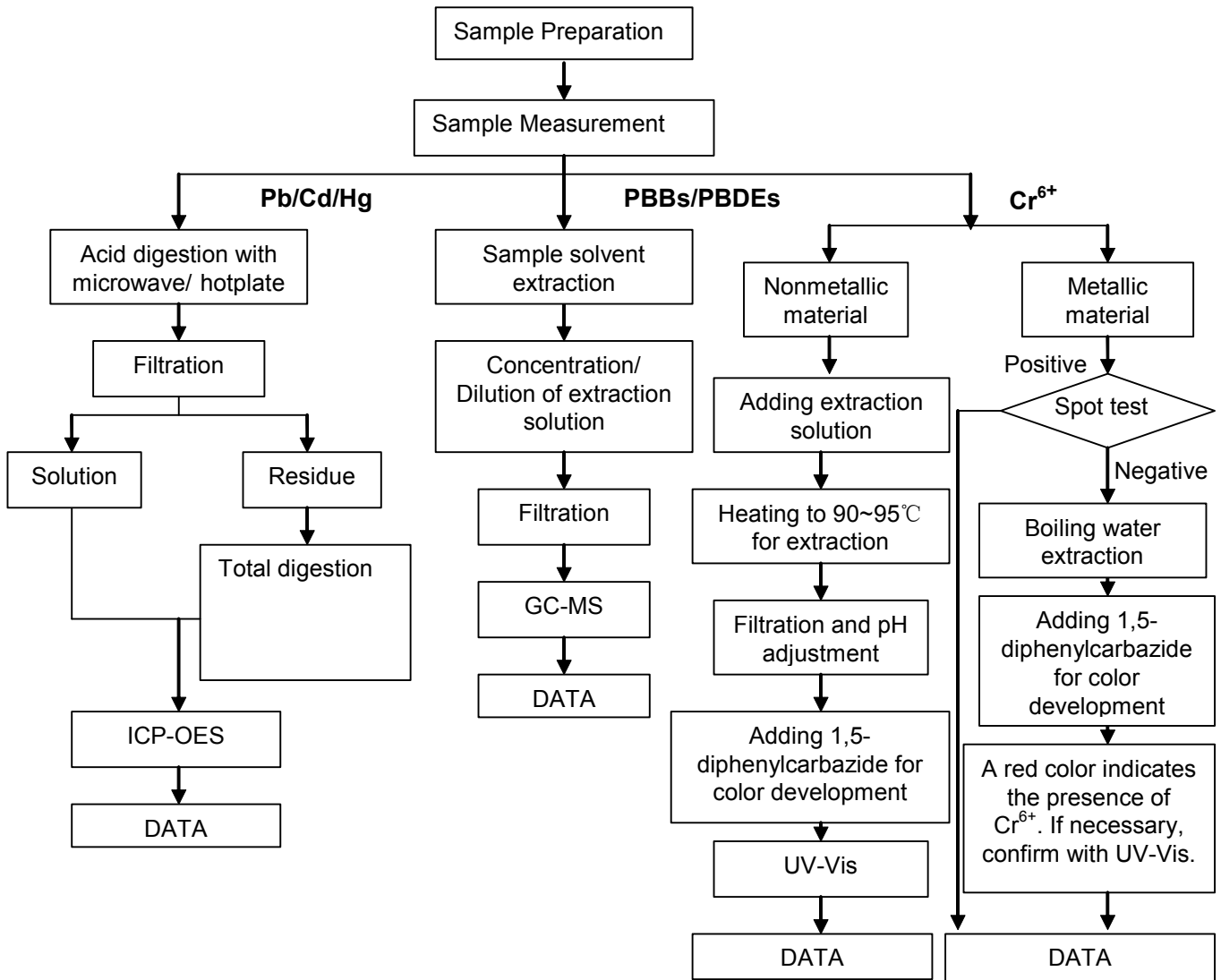
<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

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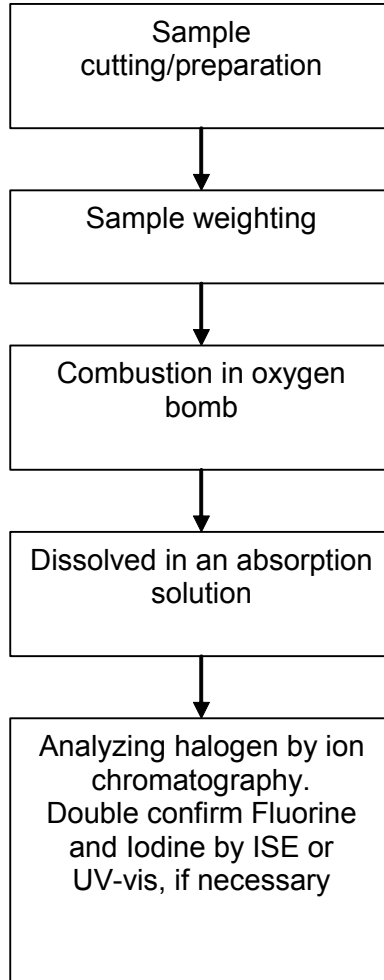
- 1) Name of the person who made measurement: Allan Xiao/Spring Zuo/Frank Fang/ Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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Halogen Measurement Flowchart for sample

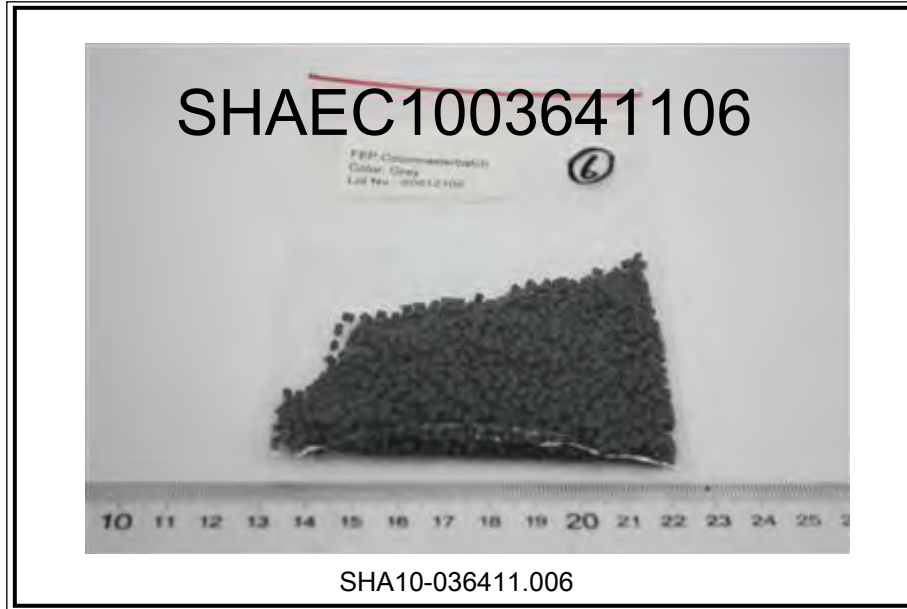


Tested by : Daisy Gong
Checked by : Alex Jiang

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Test Report

No. SHAEC1003641107

Date: 07 Apr 2010

Page 1 of 6

SHANGHAI COLORANT CHROMATICS.CO.,LTD.

1607 LIAN ROAD,MIN HANG DISTRICT.SHANGHAI,201100,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : FEP
COLORMASTERBATCH

SGS Job No. : SP10-010215 - SH
Lot No. : S0912128
Date of Sample Received : 01 Apr 2010
Testing Period : 01 Apr 2010 - 07 Apr 2010
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted samples, the results comply with the
RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.



Hao Jinyu, Sandy
Lab Manager

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Test Report

No. SHAEC1003641107

Date: 07 Apr 2010

Page 2 of 6

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA10-036411.007	White plastic pellet

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2002/95/EC

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Unit	MDL	007
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report

No. SHAEC1003641107

Date: 07 Apr 2010

Page 3 of 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

- (1) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

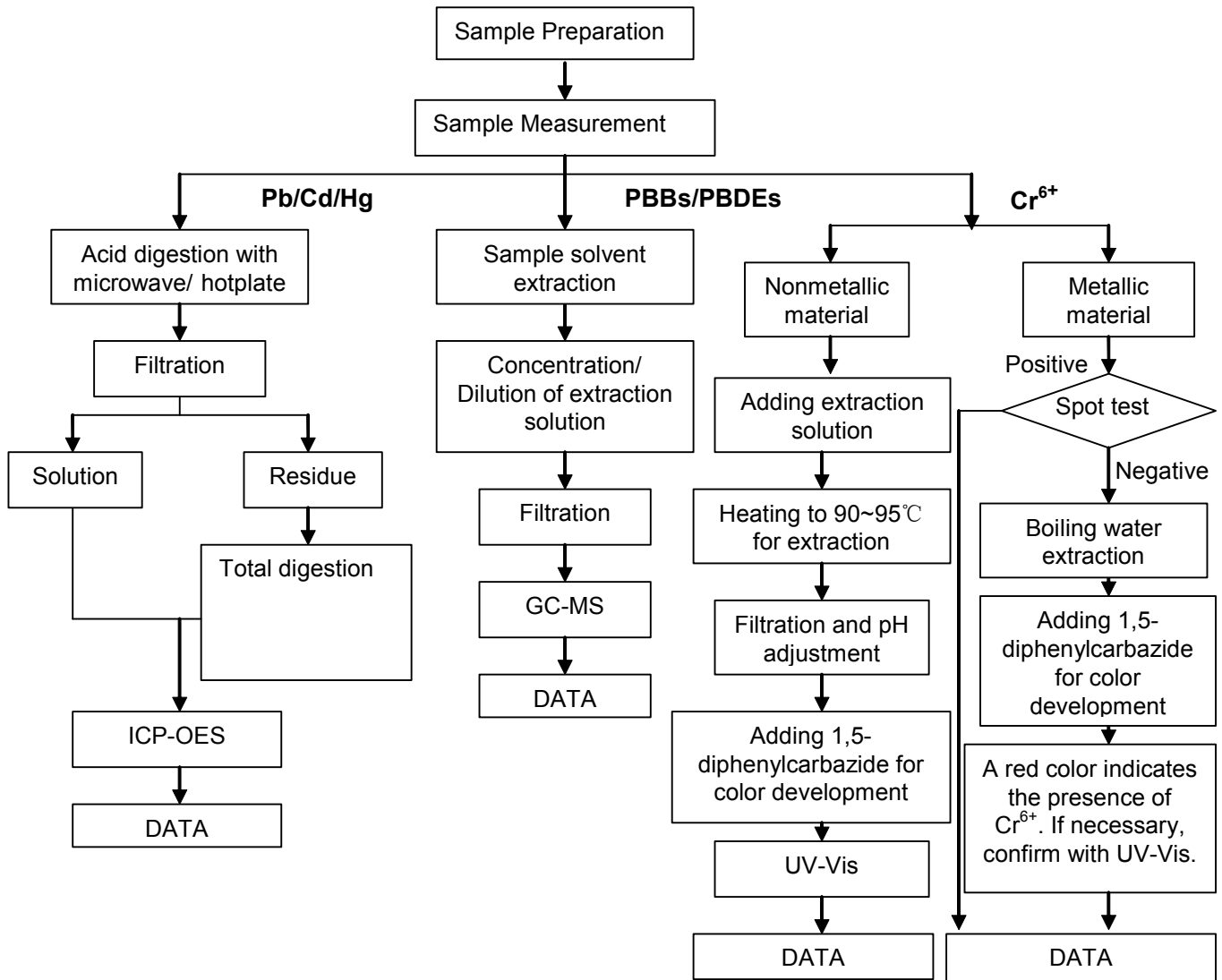
<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

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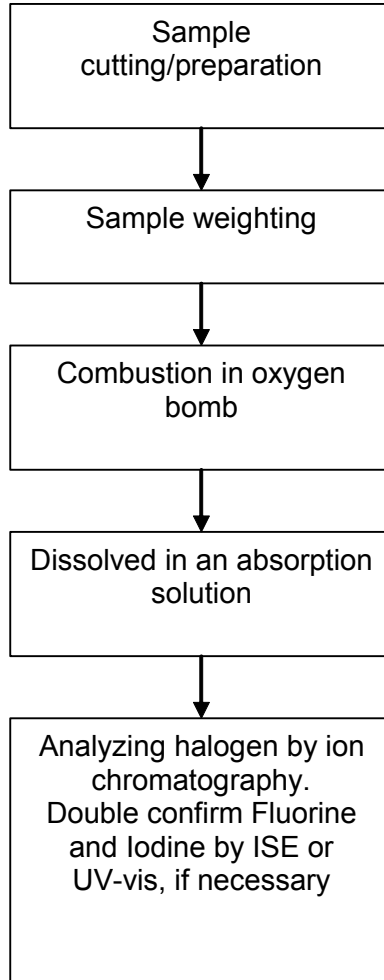
- 1) Name of the person who made measurement: Allan Xiao/Spring Zuo/Frank Fang/ Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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Halogen Measurement Flowchart for sample

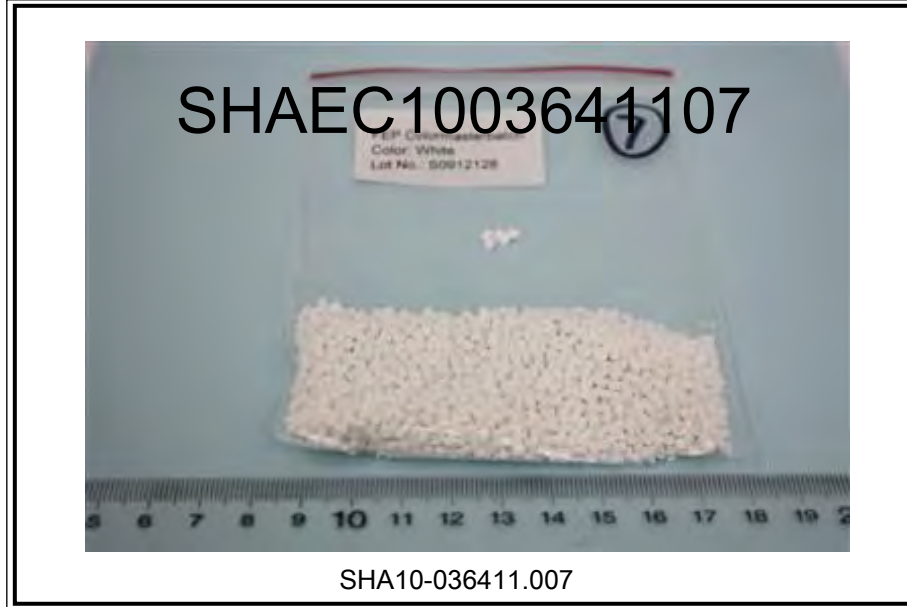


Tested by : Daisy Gong
Checked by : Alex Jiang

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測試報告

Test Report

號碼(No.) : CE/2009/C6505 日期(Date) : 2010/01/06 頁數(Page) : 1 of 14

慕明企業有限公司



MOLECULE ENTERPRISE CO., LTD.

台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description) : FEP氟碳聚合物顆粒
樣品型號(Style/Item No.) : NP-102
收件日期(Sample Receiving Date) : 2009/12/29
測試期間(Testing Period) : 2009/12/29 TO 2010/01/06

=====
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) : 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯及多溴聯苯醚的測試結果符合RoHS(2002/95/EC)及其修定指令之要求 (Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試報告

Test Report

號碼(No.) : CE/2009/C6505 日期(Date) : 2010/01/06 頁數(Page) : 2 of 14

慕明企業有限公司



MOLECULE ENTERPRISE CO., LTD.

台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

測試結果(Test Results)

測試部位(PARTNAME)NO.1 : 透明色塑膠粒 (TRANSPARENT PLASTIC PELLETS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	法規 限值 (Limit)
				NO.1	
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
銻 / Antimony (Sb)	mg/kg	參考US EPA 3050B方法, 以感應耦合電漿原子發射光譜儀檢測銻含量. / With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	-
磷 / Phosphorus (P)	mg/kg	參考US EPA 3052方法, 以感應耦合電漿原子發射光譜儀檢測磷含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	n.d.	-

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慕明企業有限公司



MOLECULE ENTERPRISE CO., LTD.

台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	法規 限值 (Limit)
				NO.1	
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8)	%	參考US EPA 3540C方法, 以氣相層析質 譜儀(GC/MS)檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	n.d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) PFOS - Acid PFOS - Metal Salt PFOS - Amide	mg/kg	參考US EPA 3540C: 1996方法, 以液相 層析質譜儀檢測全氟辛烷磺酸含量. / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	-
全氟辛酸(銨) / PFOA (CAS No.: 000335- 67-1)	mg/kg	參考US EPA 3540C: 1996方法, 以液相 層析質譜儀檢測全氟辛酸(銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	-
鹵素 / Halogen					
鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	213000	-
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
鹵素(碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-

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11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	法規 限值 (Limit)
				NO.1	
可塑劑定量分析 / Phthalates					
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 000084-75-3)	%	參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-

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11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	法規 限值 (Limit)
				NO.1	
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
一溴聯苯 / Monobromobiphenyl			5	n.d.	-
二溴聯苯 / Dibromobiphenyl			5	n.d.	-
三溴聯苯 / Tribromobiphenyl			5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	-
五溴聯苯 / Pentabromobiphenyl			5	n.d.	-
六溴聯苯 / Hexabromobiphenyl			5	n.d.	-
七溴聯苯 / Heptabromobiphenyl			5	n.d.	-
八溴聯苯 / Octabromobiphenyl			5	n.d.	-
九溴聯苯 / Nonabromobiphenyl			5	n.d.	-
十溴聯苯 / Decabromobiphenyl			5	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	5	n.d.	-		
十溴聯苯醚 / Decabromodiphenyl ether	5	n.d.	-		

備註(Note) :

1. mg/kg = ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)

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11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

PFOS參考資訊(Reference Information) : 指令 2006/122/EC (Directive 2006/122/EC)

- (1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%.

(May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005% by mass.)

- (2) 該物質不可置於市場上的半成品或商品或其物件；假若零件上明顯地具有PFOS並參照結構上及微細構造上計算PFOS重量濃度等於或大於0.1%，而紡織品或其他覆蓋物質，如果PFOS在覆蓋物質中含量等於或大於 $1\mu\text{g}/\text{m}^2$ 。

(May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1% by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than $1\mu\text{g}/\text{m}^2$ of the coated material.)

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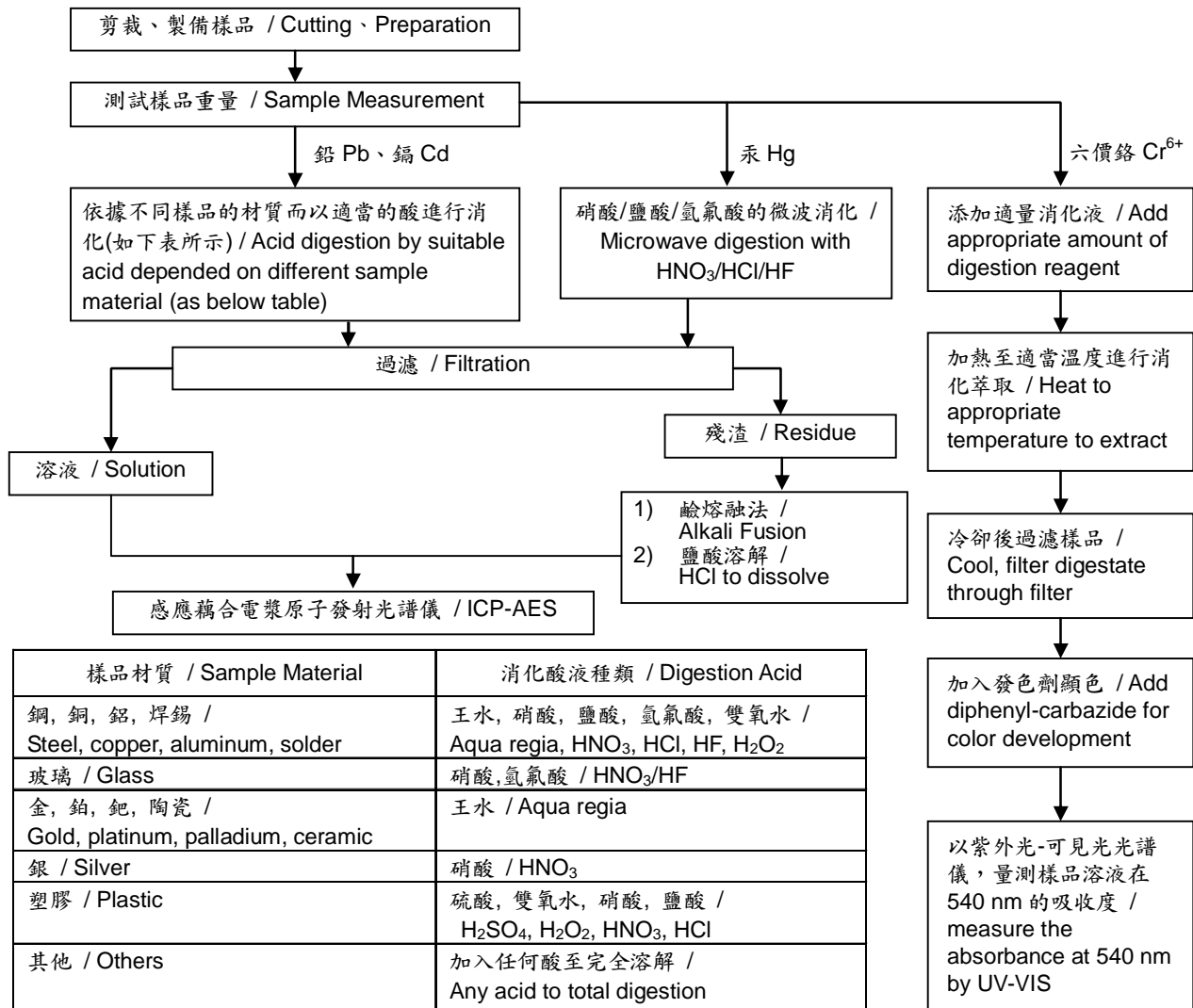


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11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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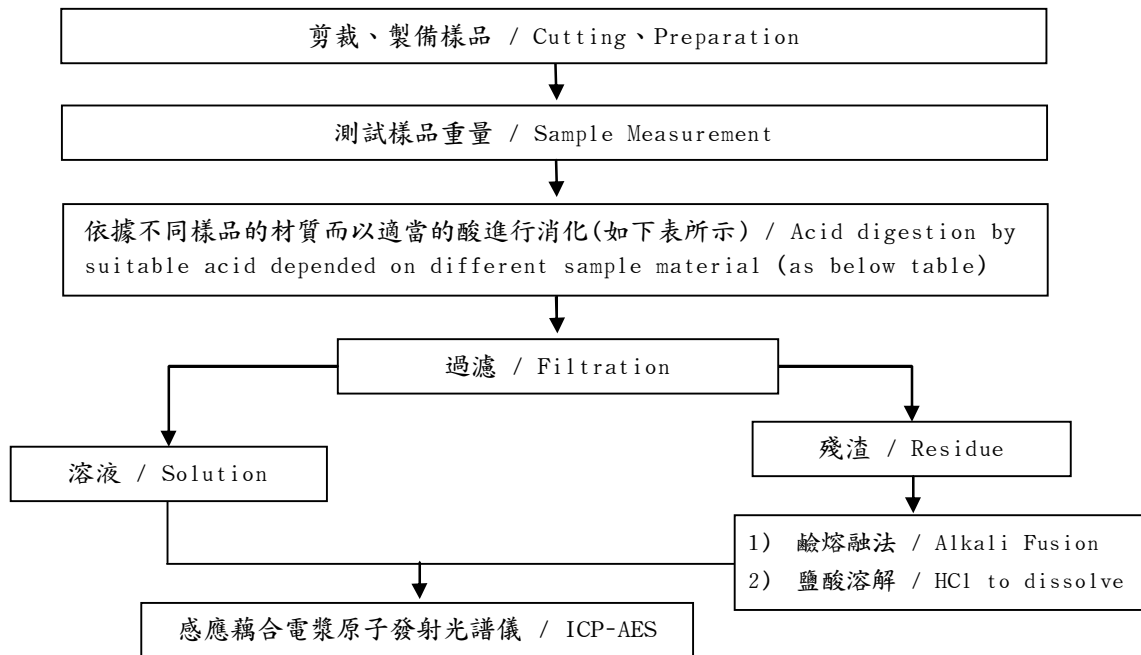
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸,氫氟酸 / HNO ₃ /HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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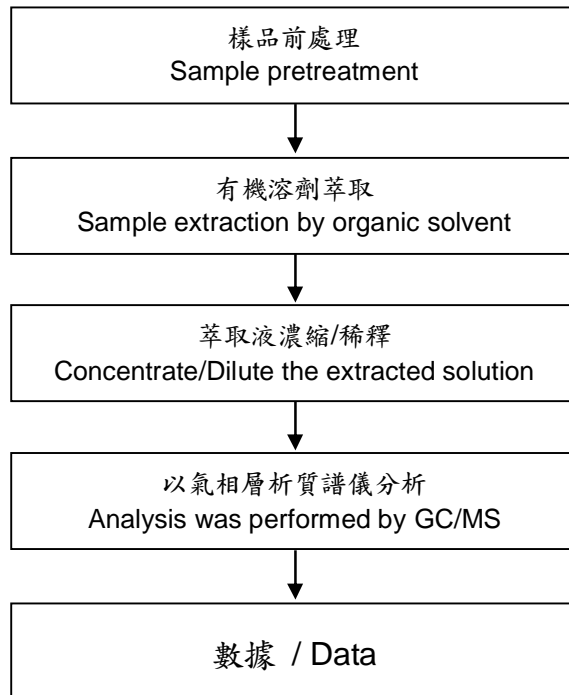
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11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

含氯阻燃劑分析流程 / Chlorinated Flame retardant analytical flow chart

- 1) 測試人員：劉桓易 / Name of the person who made measurement: Max Liu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

- 參考方法(Reference method): US EPA 8270D, US EPA 3540
- 測試項目(Test Items): PCBs, PCNs, PCTs, Mirex, CP, MCCP / 多氯聯苯, 多氯奈, 多氯三聯苯, 滅蟻靈, 氯化石蠟, 中鏈氯化石蠟



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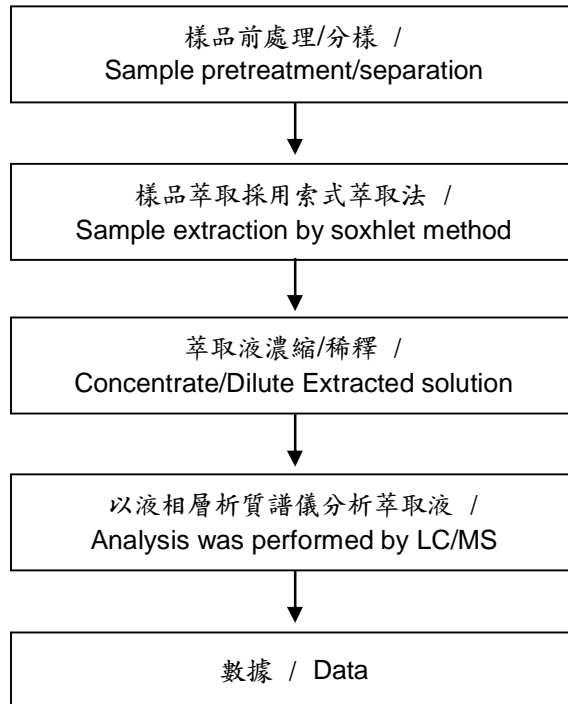
台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

索式萃取(LC/MS)分析流程圖 /

Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) 測試人員：傅莉雅 / Name of the person who made measurement: Lydia Fu
 - 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen
- 測試項目(Test Items): 全氟辛烷磺酸/全氟辛酸(銨)、苯並三唑類化合物 /
PFOS/PFOA、Benzotriazole



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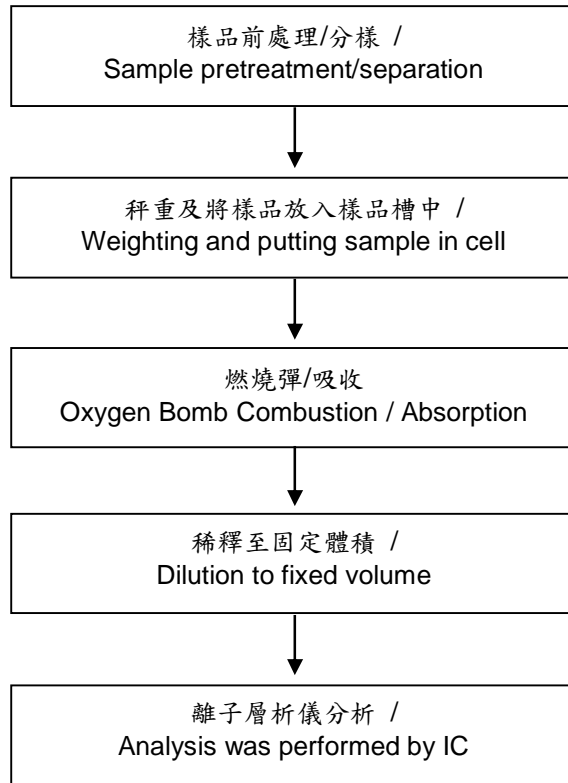
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台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：陳立倫 / Name of the person who made measurement: Alan Chen
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告 Test Report

號碼(No.) : CE/2009/C6505 日期(Date) : 2010/01/06 頁數(Page) : 12 of 14

慕明企業有限公司



MOLECULE ENTERPRISE CO., LTD.

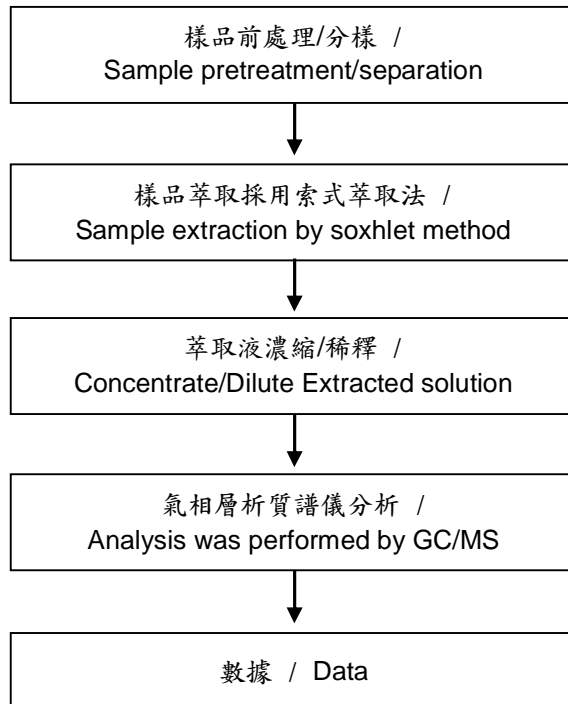
台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

索式萃取(GC/MS)分析流程圖 /

Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 1) 測試人員：傅莉雅 / Name of the person who made measurement: Lydia Fu
 - 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen
- 測試項目(Test Items): 可塑劑、苯並三唑類化合物、六溴環十二烷 / Phthalate、Benzotriazole、HBCDD



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測試報告 Test Report

號碼(No.) : CE/2009/C6505 日期(Date) : 2010/01/06 頁數(Page) : 13 of 14

慕明企業有限公司



MOLECULE ENTERPRISE CO., LTD.

台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N, RD., SEC. 2, TAIPEI, TAIWAN

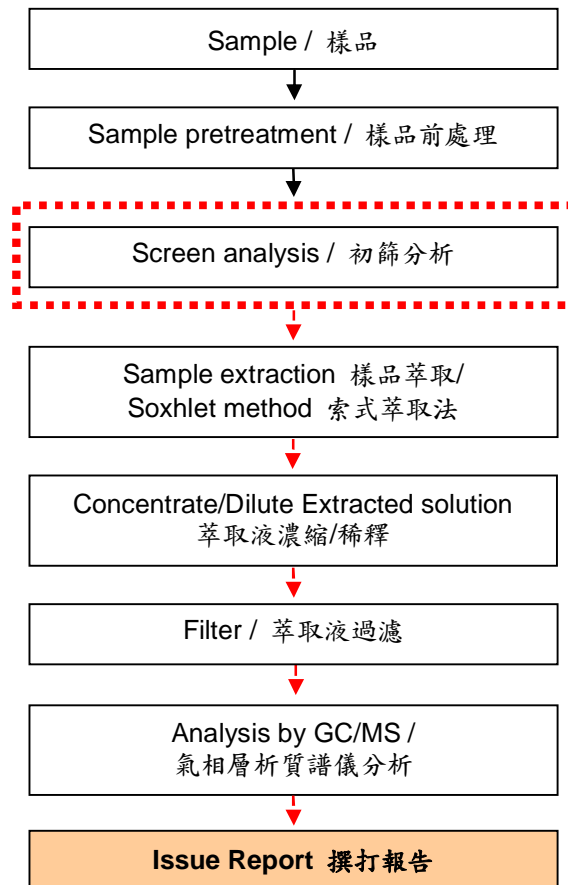
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

初次測試程序 / First testing process ———▶

選擇性篩檢程序 / Optional screen process▶

確認程序 / Confirmation process - - - ▶



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測試報告

Test Report

號碼(No.) : CE/2009/C6505 日期(Date) : 2010/01/06 頁數(Page) : 14 of 14

慕明企業有限公司



MOLECULE ENTERPRISE CO., LTD.

台北市中山北路二段112號11樓之4

11F-4, NO. 112, CHUNG SHAN N. RD., SEC. 2, TAIPEI, TAIWAN



** 報告結尾 **

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Test Report

Number : TWNC00154076

Applicant 申請商: 3M Taiwan Ltd.
66, 800 Lane,
Chung Shan S. Road, Yang Mei,
Taoyuan Hsien, Taiwan, R.O.C.

Date : Apr 16, 2010

Sample Description 樣品敘述:

One (1) group of submitted samples said to be :

以下測試樣品乃供應商所提供及確認 :

Sample Description : 3M Double Coated Tissue Tape

樣品名稱

Style / Item No. : 9888T, 9810T

產品型號

Date Sample Received : Apr 12, 2010

收件日期

Date Test Started : Apr 12, 2010

開始測試日期

Test Conducted 測試執行 :

As requested by the applicant, for details please refer to attached pages.
依申請商之要求, 細節請參考附頁.

Authorized By:
On Behalf Of Intertek Testing Services
Taiwan Limited



K. Y. Liang
Director

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except in full, without the written
approval of the laboratory.



Number : TWNC00154076

Test Conducted

(I) Test Result Summary 測試結果 :

<u>Testing Item 測試項目</u>	<u>Result 結果 (ppm)</u>
	<u>Transparent Tissue Tape (Release Liners Were Excluded)</u>
Heavy Metal / 重金屬	
Cadmium (Cd) content / 鎘含量	ND
Lead (Pb) content / 鉛含量	ND
Mercury (Hg) content / 汞含量	ND
Chromium VI (Cr ⁶⁺) content / 六價鉻含量	ND
Polybrominated Biphenyls (PBBs) / 多溴聯苯	
Monobrominated Biphenyls (MonoBB) / 單溴聯苯	ND
Dibrominated Biphenyls (DiBB) / 二溴聯苯	ND
Tribrominated Biphenyls (TriBB) / 三溴聯苯	ND
Tetrabrominated Biphenyls (TetraBB) / 四溴聯苯	ND
Pentabrominated Biphenyls (PentaBB) / 五溴聯苯	ND
Hexabrominated Biphenyls (HexaBB) / 六溴聯苯	ND
Heptabrominated Biphenyls (HeptaBB) / 七溴聯苯	ND
Octabrominated Biphenyls (OctaBB) / 八溴聯苯	ND
Nonabrominated Biphenyls (NonaBB) / 九溴聯苯	ND
Decabrominated Biphenyl (DecaBB) / 十溴聯苯	ND
Polybrominated Diphenyl Ethers (PBDEs) / 多溴聯苯醚	
Monobrominated Diphenyl Ethers (MonoBDE) / 單溴聯苯醚	ND
Dibrominated Diphenyl Ethers (DiBDE) / 二溴聯苯醚	ND
Tribrominated Diphenyl Ethers (TriBDE) / 三溴聯苯醚	ND
Tetrabrominated Diphenyl Ethers (TetraBDE) / 四溴聯苯醚	ND
Pentabrominated Diphenyl Ethers (PentaBDE) / 五溴聯苯醚	ND
Hexabrominated Diphenyl Ethers (HexaBDE) / 六溴聯苯醚	ND
Heptabrominated Diphenyl Ethers (HeptaBDE) / 七溴聯苯醚	ND
Octabrominated Diphenyl Ethers (OctaBDE) / 八溴聯苯醚	ND
Nonabrominated Diphenyl Ethers (NonaBDE) / 九溴聯苯醚	ND
Decabrominated Diphenyl Ether (DecaBDE) / 十溴聯苯醚	ND



Number : TWNC00154076

Test Conducted

(I) Test Result Summary 測試結果 :

Testing Item 測試項目	Result 結果 (ppm)
	Transparent Tissue Tape (Release Liners Were Excluded)
Halogen Content / 鹵素含量	
Fluorine (F) / 氟	ND
Chlorine (Cl) / 氯	ND
Bromine (Br) / 溴	ND
Iodine (I) / 碘	ND
Others 其他	
Perfluorooctane Sulfonates (PFOS) / 全氟辛磺酸	ND
Perfluorooctanoic Acid (PFOA) / 全氟辛酸	ND

Remarks: ppm = parts per million based on weight of tested sample = mg/kg
 備註 = 百萬分之一，依據測試樣品重量計算
 ND = Not Detected = 未檢測出

Responsibility Of Chemist 分析人員 : Irene Chiou / Kevin Liu / Cathy Chen

Date Sample Received 樣品收件日期 : Apr 12, 2010
 Testing Period 樣品測試期間 : Apr 12, 2010 To Apr 15, 2010

(II) Test Method 測試方法:

Testing Item 測試項目	Testing Method 測試方法	MDL 方法偵測極限
Cadmium (Cd) content 鎘含量	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES. 參考IEC 62321, 2008年第一版第8/9/10章, 以微波消化法測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Lead (Pb) content 鉛含量	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES. 參考IEC 62321, 2008年第一版第8/9/10章, 以微波消化法測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm

Test Conducted

(II) Test Method 測試方法:

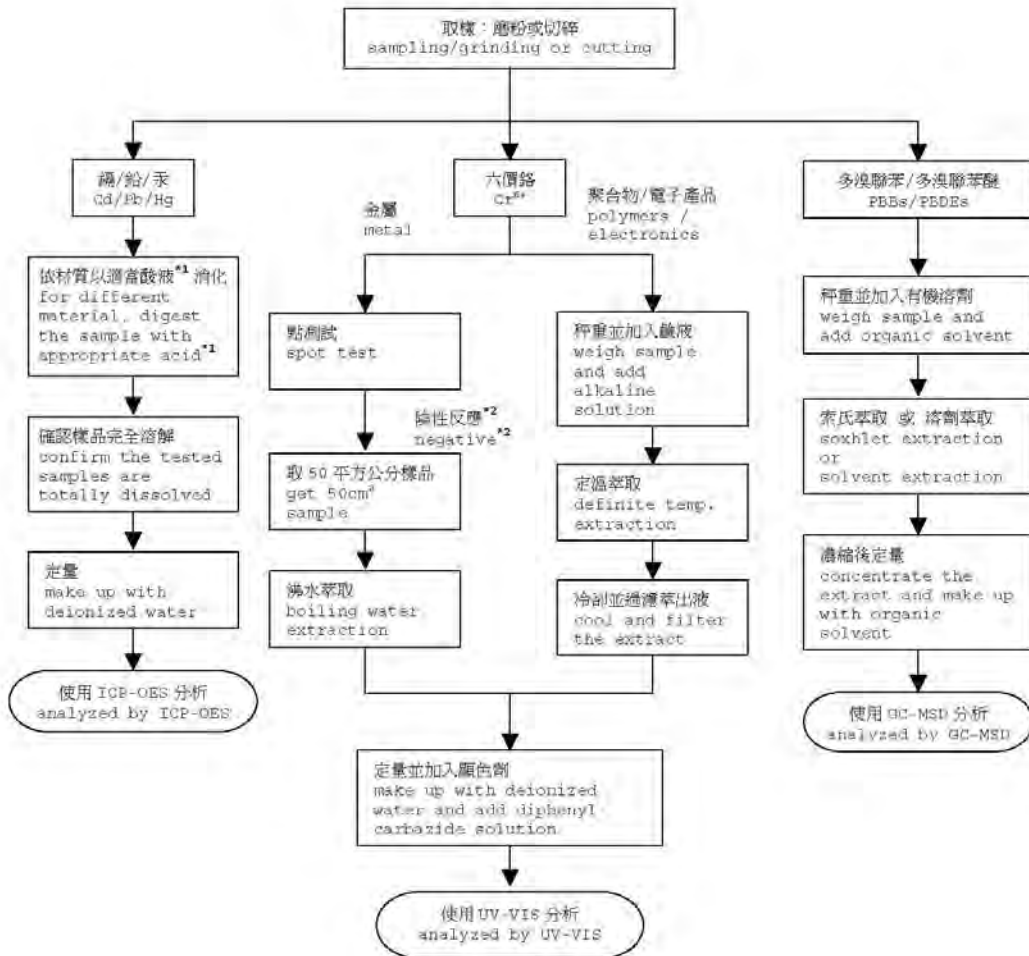
Testing Item 測試項目	Testing Method 測試方法	MDL 方法偵測極限
Mercury (Hg) content 汞含量	With reference to IEC 62321 edition 1.0:2008 in clause 7, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES. 參考IEC 62321, 2008年第一版第7章, 以微波消化法測試樣品直到樣品完全溶解並用感應耦合電漿原子放射光譜儀分析。	2 ppm
Chromium VI (Cr ⁶⁺) content 六價鉻含量	With reference to IEC 62321 edition 1.0:2008 in annex C, by alkaline digestion and determined by UV-Vis spectrophotometer. 參考IEC 62321, 2008年第一版附錄C, 以鹼液消化並用紫外光-可見分光光度計分析。	1 ppm
Polybrominated Biphenyls (PBBs) 多溴聯苯	With reference to IEC 62321 edition 1.0:2008 in annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary 參考IEC 62321, 2008年第一版附錄A, 以溶劑萃取並用氣相層析質譜儀分析, 必要時會以高效能液相層析-二極體陣列偵檢器進行確認。	5 ppm
Polybrominated Diphenyl Ethers (PBDEs) 多溴聯苯醚	With reference to IEC 62321 edition 1.0:2008 in annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary 參考IEC 62321, 2008年第一版附錄A, 以溶劑萃取並用氣相層析質譜儀分析, 必要時會以高效能液相層析-二極體陣列偵檢器進行確認。	5 ppm
Halogen Content 鹵素含量	With reference to EN 14582:2007 by calorimetric bomb with oxygen and determined by ion chromatography 參考EN 14582:2007, 以氧彈燃燒集氣法並用離子層析儀分析。	50 ppm
Perfluorooctane Sulfonates (PFOS) 全氟辛磺酸	By solvent extraction and determined by LC-MS 以溶劑萃取並用液相層析質譜儀分析。	10 ppm
Perfluorooctanoic Acid (PFOA) 全氟辛酸	By solvent extraction and determined by LC-MS 以溶劑萃取並用液相層析質譜儀分析。	10 ppm

Remark備註: MDL = Quantitation limit of testing method = 方法偵測極限

Test Conducted

(IV) Measurement Flowchart 測試流程圖:

Test For Cd/Pb/Hg/Chromium (VI)/PBBs/PBDEs Contents RoHS六項測試流程圖
Reference Standard 參考方法: IEC 62321 edition 1.0:2008



Remarks 備註:

*1: List of Appropriate Acid 各材質添加酸液如下表:

Material 樣品材質	Acid Added For Digestion 添加酸液種類
Polymers / 聚合物	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃ 硝酸、鹽酸、氫氟酸、雙氧水、硼酸
Metals / 金屬	HNO ₃ , HCl, HF 硝酸、鹽酸、氫氟酸
Electronics / 電子產品	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄ 硝酸、鹽酸、雙氧水、氟硼酸

*2: If the result of spot test is positive, Chromium VI would be determined as detected.

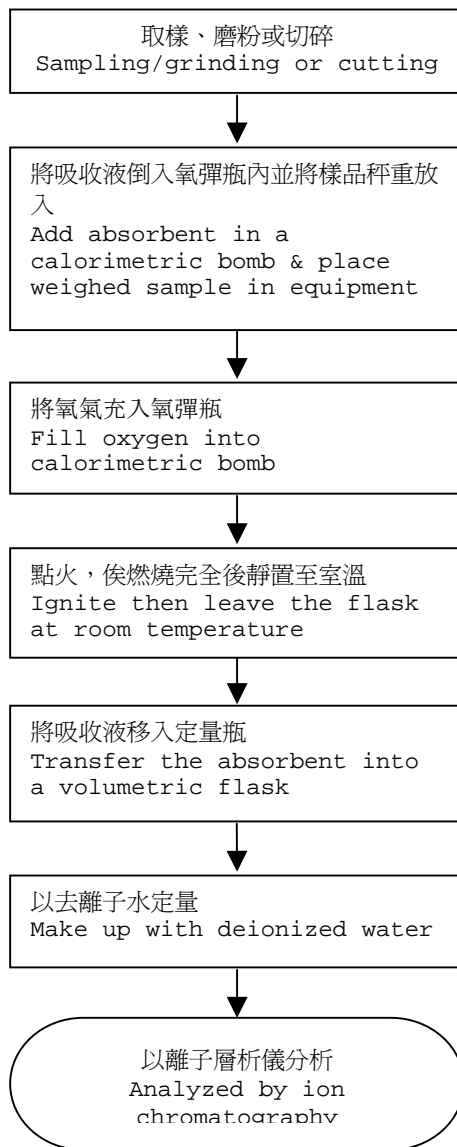
若點測試的結果為陽性反應，則直接判定為測試樣品含有六價鉻。

Test Conducted

(IV) Measurement Flowchart 測試流程圖:

Test For Halogen Content 鹵素測試流程圖

Reference Method 參考方法: EN 14582

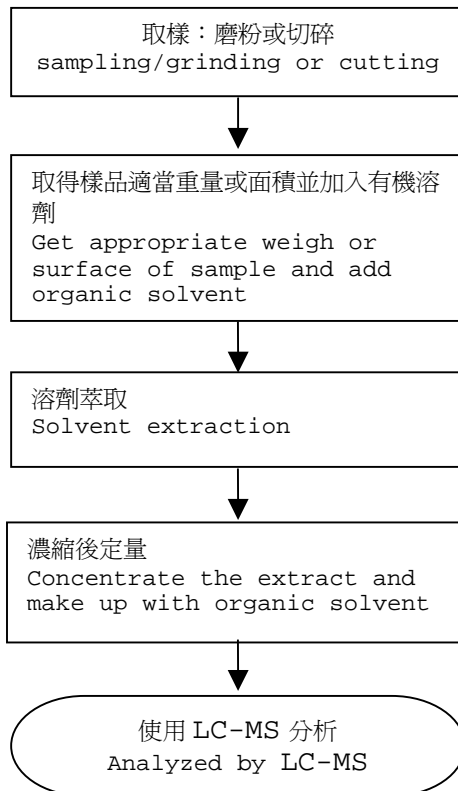


Test Conducted

(IV) Measurement Flowchart 測試流程圖:

Test For Perfluorooctane Sulfonates (PFOS) / Perfluorooctanoic Acid (PFOA)
Contents 全氟辛磺酸 / 全氟辛酸測試流程圖

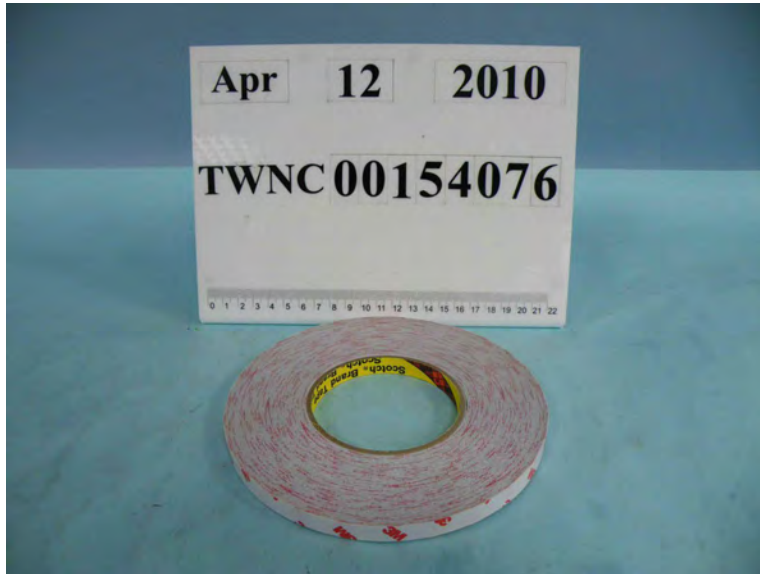
Reference Method 參考方法: Solvent Extraction 溶劑萃取法



End Of Report

Test Conducted

Photo



测试报告

No. CANEC1004896502

日期: 2010年11月26日 第1页,共5页

深圳市同创时代焊锡科技有限公司
中国广东省深圳市宝安区西乡街道固戍路段华万工业园B栋

以下测试之样品是由申请者所提供及确认:

无铅锡线

SGS工作编号 : 12848754 - GZ
供应商 : 深圳市同创时代焊锡科技有限公司
SGS内部编号 : 5.2
样品接收日期 : 2010年11月23日
测试周期 : 2010年11月23日 - 2010年11月26日

测试要求 : 根据客户要求测试
测试方法 : 请参见下一页
测试结果 : 请参见下一页
结论 : 基于所送样品进行的测试, 测试结果与欧盟RoHS指令2002/95/EC以及后续修正指令的要求**相符**。

通标标准技术服务有限公司
授权签名



Silva Zhou周北林
批准签署人

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测试报告

No. CANEC1004896502

日期: 2010年11月26日 第2页,共5页

测试结果:

样品1 ID : CAN10-048965.001
 样品1描述 : 银色金属线

RoHS 指令 2002/95/EC

测试项目	单位	测试方法 (参考)	测试结果	MDL	限值
镉 (Cd)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	100
铅 (Pb)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	1000
汞 (Hg)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	1000
沸水萃取法测六价铬 (CrVI)	-	IEC 62321:2008, UV-Vis	Negative	◇	#
多溴联苯(PBBs)之和	mg/kg	-	N.D.	-	1000
单溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
二溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
三溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
四溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
五溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
六溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
七溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
八溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
九溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
十溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
多溴二苯醚(PBDEs)之和	mg/kg	-	N.D.	-	1000
单溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
二溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
三溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
四溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
五溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
六溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
七溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
八溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
九溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
十溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	

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测试报告

No. CANEC1004896502

日期: 2010年11月26日 第3页,共5页

注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限
4. ◇=点测试:

Negative = 未检测到六价铬, Positive = 检测到六价铬;

(如果点测试结果为Negative或不能确认, 测试样品需进一步由沸水萃取法进行测试)。

沸水萃取法:

Negative = 未检测到六价铬

Positive = 检测到六价铬; 每50cm²面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02mg/kg。

由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

5. # Positive = 阳性

Negative = 阴性

6. "-" = 未规定

7. 多溴二苯醚 = 多溴联苯醚

8. 本测试报告内容是参照报告编号为CANEC1004896501的中文译本, 中英文版本如有歧异, 概以英文版为准。

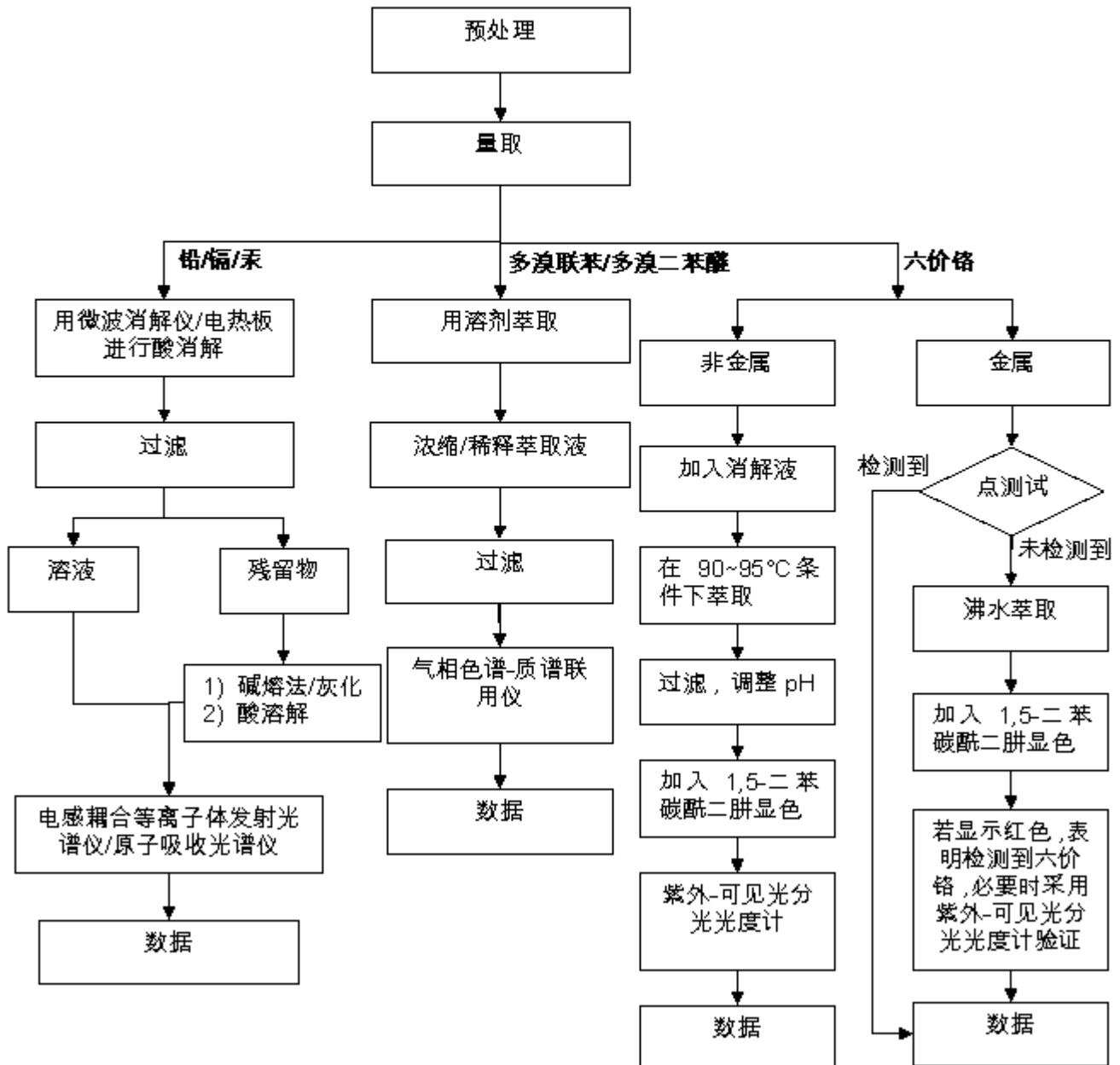
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附件

RoHS 测试流程图

- 1) 分析人员: 汪丹 / 余晓璐 / 詹达琦
- 2) 项目负责人: 余奕东 / 杨伟兴
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)



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测试报告

No. CANEC1004896502

日期: 2010年11月26日 第5页,共5页

样品照片:



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*** 报告完 ***

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测试报告

No. CANEC1004896505

日期: 2010年11月26日 第1页,共5页

深圳市同创时代焊锡科技有限公司
中国广东省深圳市宝安区西乡街道固戍路段华万工业园B栋

以下测试之样品是由申请者所提供及确认:

无铅锡条

SGS工作编号 : 12848754 - GZ
供应商 : 深圳市同创时代焊锡科技有限公司
SGS内部编号 : 5.5
样品接收日期 : 2010年11月23日
测试周期 : 2010年11月23日 - 2010年11月26日

测试要求 : 根据客户要求测试

测试方法 : 请参见下一页

测试结果 : 请参见下一页

结论 : 基于所送样品进行的测试, 测试结果与欧盟RoHS指令2002/95/EC以及后续修正指令的要求**相符**。

通标标准技术服务有限公司
授权签名



Silva Zhou周北林
批准签署人

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测试报告

No. CANEC1004896505

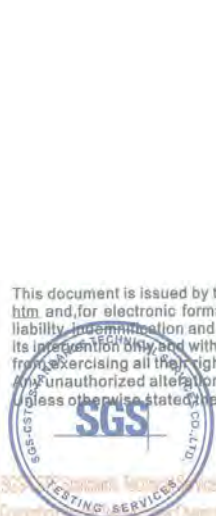
日期: 2010年11月26日 第2页,共5页

测试结果:

样品1 ID : CAN10-048965.002
 样品1描述 : 银色金属棒

RoHS 指令 2002/95/EC

测试项目	单位	测试方法 (参考)	测试结果	MDL	限值
镉 (Cd)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	100
铅 (Pb)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	1000
汞 (Hg)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	1000
沸水萃取法测六价铬 (CrVI)	-	IEC 62321:2008, UV-Vis	Negative	◇	#
多溴联苯(PBBs)之和	mg/kg	-	N.D.	-	1000
单溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
二溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
三溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
四溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
五溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
六溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
七溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
八溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
九溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
十溴联苯	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
多溴二苯醚(PBDEs)之和	mg/kg	-	N.D.	-	1000
单溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
二溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
三溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
四溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
五溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
六溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
七溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
八溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
九溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
十溴二苯醚	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	



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注释:

- 1. mg/kg = ppm
- 2. N.D. = 未检出 (< MDL)
- 3. MDL = 方法检测限
- 4. ◇=点测试:

Negative = 未检测到六价铬, Positive = 检测到六价铬;
(如果点测试结果为Negative或不能确认, 测试样品需进一步由沸水萃取法进行测试)。

沸水萃取法:

Negative = 未检测到六价铬
Positive = 检测到六价铬; 每50cm²面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02mg/kg。
由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

5. # Positive = 阳性

Negative = 阴性

6. "-" = 未规定

7. 多溴二苯醚 = 多溴联苯醚

8. 本测试报告内容是参照报告编号为CANEC1004896504的中文译本, 中英文版本如有歧异, 概以英文版为准。

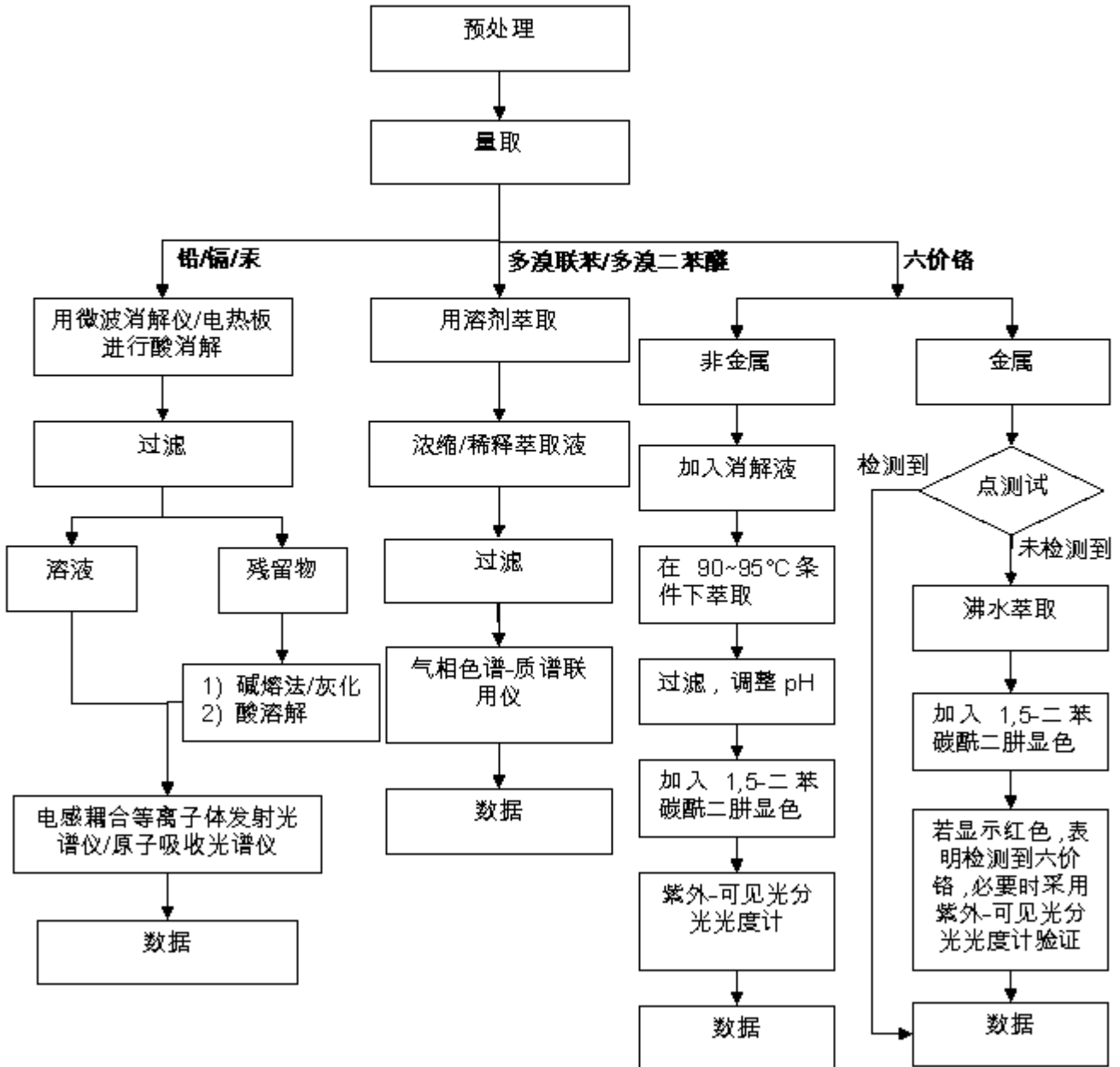
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附件

RoHS 测试流程图

- 1) 分析人员: 汪丹 / 余晓璐 / 詹达琦
- 2) 项目负责人: 余奕东 / 杨伟兴
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)



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测试报告

No. CANEC1004896505

日期: 2010年11月26日 第5页,共5页

样品照片:



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Test Report

No. : CE/2011/35683 Date : 2011/03/30 Page : 1 of 12

HAMBURG INDUSTRIES CO., LTD.

6F., NO. 12, LANE 270, SEC. 3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222



The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : HEAT SHRINKABLE POLYOLEFIN TUBING (HALOGEN FREE)
Style/Item No. : HAMBURG-A H-2 & H-2(CB)
Other Info. : LOT NO:10120000606
Sample Receiving Date : 2011/03/22
Testing Period : 2011/03/22 TO 2011/03/29

Test Result(s) : Please refer to next page(s).

Conclusion : Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Report

No. : CE/2011/35683 Date : 2011/03/30 Page : 2 of 12

HAMBURG INDUSTRIES CO., LTD.

6F., NO. 12, LANE 270, SEC. 3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222



Test Result(s)

PART NAME No.1 : BLACK PLASTIC TUBE (EXCLUDING THE WHITE PRINTED)

Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	-
Antimony trioxide (Sb ₂ O ₃)(#) (CAS No.: 001309-64-4)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	-	n.d.	-
Tetrabromobisphenol A (TBBP-A) (CAS No.: 000079-94-7)	mg/kg	With reference to DIN 53313. Analysis was performed by GC/MS.	10	n.d.	-
Hexabromocyclododecane (HBCDD) (CAS No.: 025637-99-4)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	-
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	-
PFOA (CAS No.: 000335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	-
Halogen					
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-

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Test Report

No. : CE/2011/35683 Date : 2011/03/30 Page : 3 of 12

HAMBURG INDUSTRIES CO., LTD.

6F., NO. 12, LANE 270, SEC. 3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
Sum of PBBs			-	n.d.	1000
Monobromobiphenyl			5	n.d.	-
Dibromobiphenyl			5	n.d.	-
Tribromobiphenyl			5	n.d.	-
Tetrabromobiphenyl			5	n.d.	-
Pentabromobiphenyl			5	n.d.	-
Hexabromobiphenyl			5	n.d.	-
Heptabromobiphenyl			5	n.d.	-
Octabromobiphenyl			5	n.d.	-
Nonabromobiphenyl			5	n.d.	-
Decabromobiphenyl			5	n.d.	-
Sum of PBDEs			-	n.d.	1000
Monobromodiphenyl ether			5	n.d.	-
Dibromodiphenyl ether			5	n.d.	-
Tribromodiphenyl ether			5	n.d.	-
Tetrabromodiphenyl ether			5	n.d.	-
Pentabromodiphenyl ether			5	n.d.	-
Hexabromodiphenyl ether			5	n.d.	-
Heptabromodiphenyl ether			5	n.d.	-
Octabromodiphenyl ether			5	n.d.	-
Nonabromodiphenyl ether			5	n.d.	-
Decabromodiphenyl ether			5	n.d.	-
Phthalates					
BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-

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Test Report

No. : CE/2011/35683 Date : 2011/03/30 Page : 4 of 12

HAMBURG INDUSTRIES CO., LTD.

6F., NO. 12, LANE 270, SEC. 3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222



Test Item (s):	Unit	Method	MDL	Result	Limit
				No.1	
DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-
DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
DIBP (Di-isobutyl phthalate) (CAS No.: 000084-69-5)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
DNHP (Di-n-hexyl phthalate) (CAS No.: 000084-75-3)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. (#): The substance was calculated by the test result of Antimony. The MDL was evaluated for Antimony.

$$AX = A \times F$$

AX	A	F
Antimony trioxide (Sb ₂ O ₃)	Antimony	1.1971

6. This report supersedes the previous document bearing the test report number CE/2011/35683 which was issued on 2011/03/29.

PFOS Reference Information : Directive 2006/122/EC

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.

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Test Report

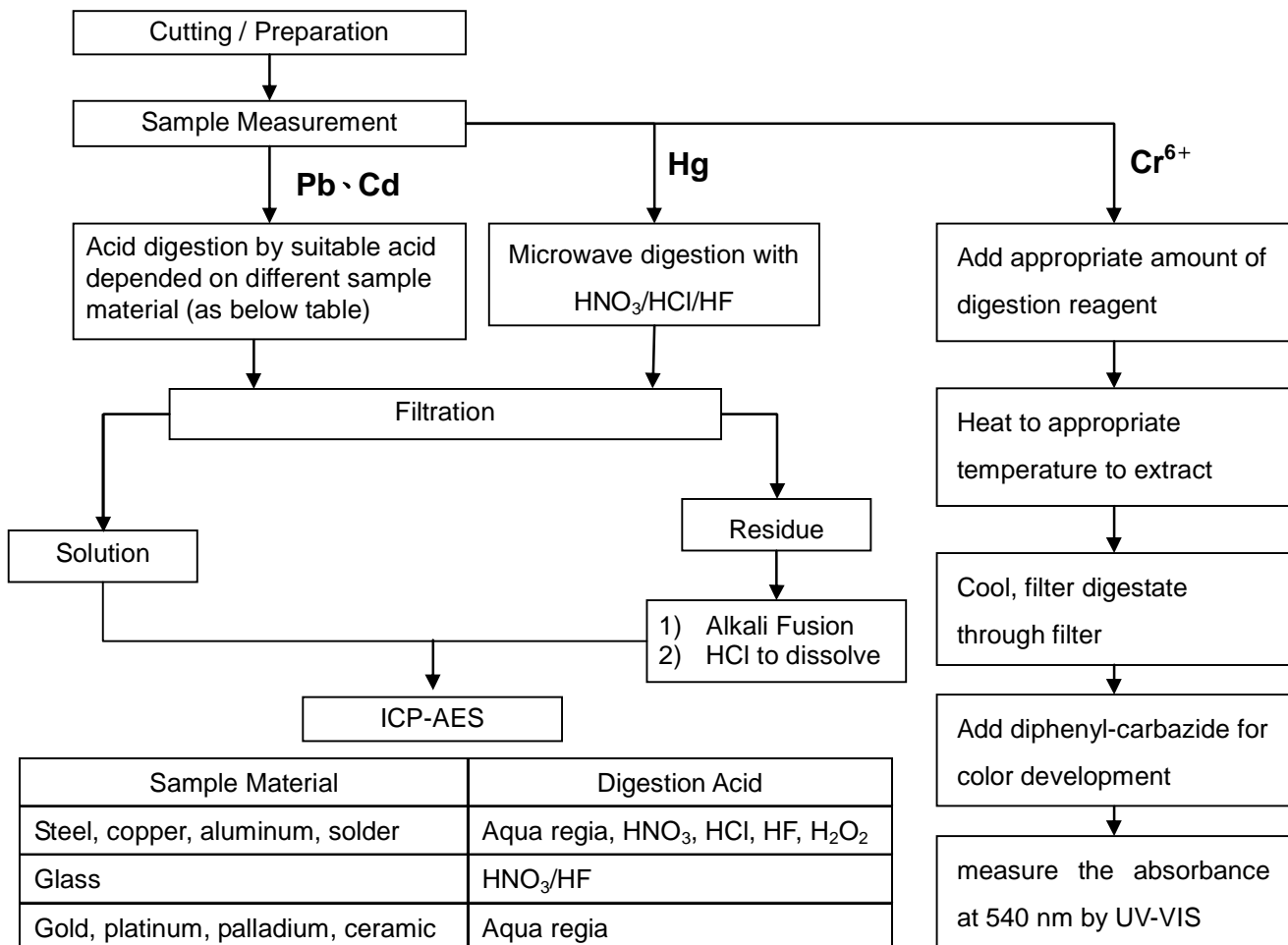
No. : CE/2011/35683 Date : 2011/03/30 Page : 5 of 12

HAMBURG INDUSTRIES CO., LTD.

6F., NO. 12, LANE 270, SEC. 3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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Test Report

No. : CE/2011/35683 Date : 2011/03/30 Page : 6 of 12

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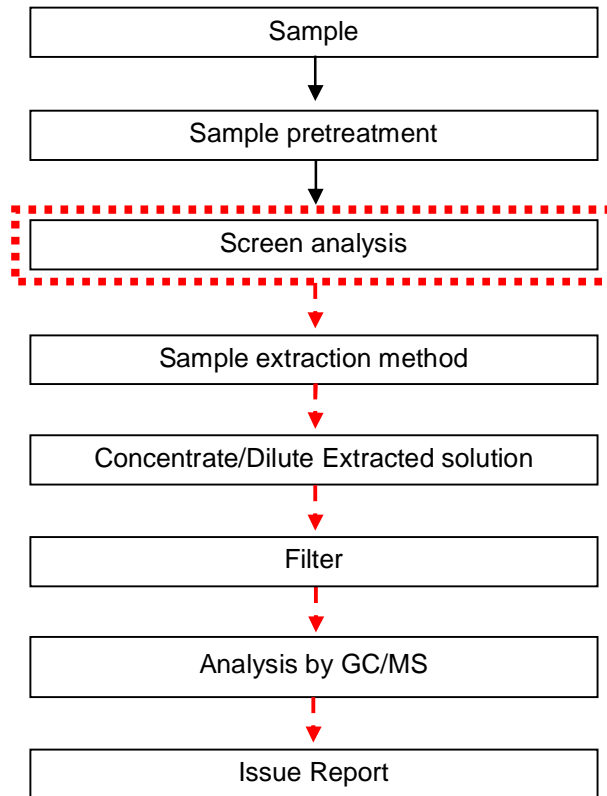
6F., NO. 12, LANE 270, SEC. 3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222



Analytical flow chart

- 1) Name of the person who made measurement: Roman Wong
 - 2) Name of the person in charge of measurement: Troy Chang
- Test Items: PBB/PBDE, TBBP-A-bis

First testing process —> Optional screen process Confirmation process ->



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Test Report

No. : CE/2011/35683 Date : 2011/03/30 Page : 7 of 12

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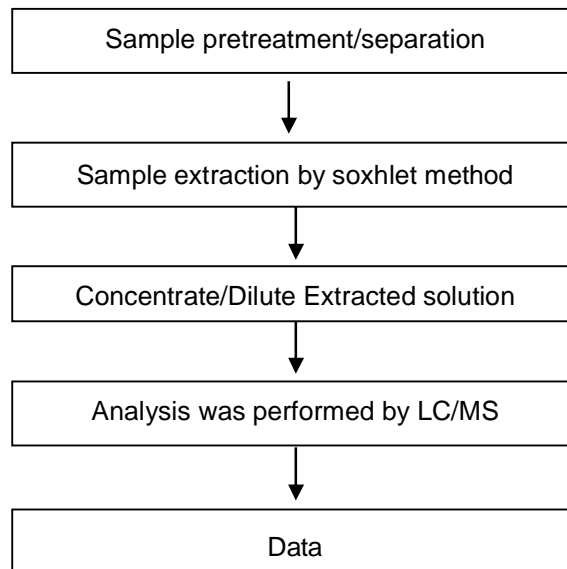
6F., NO. 12, LANE 270, SEC. 3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222



Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA 、 Benzotriazole



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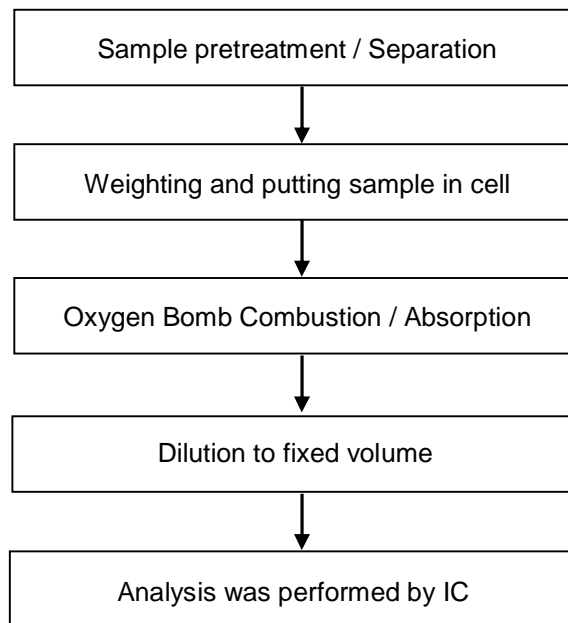
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Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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Test Report

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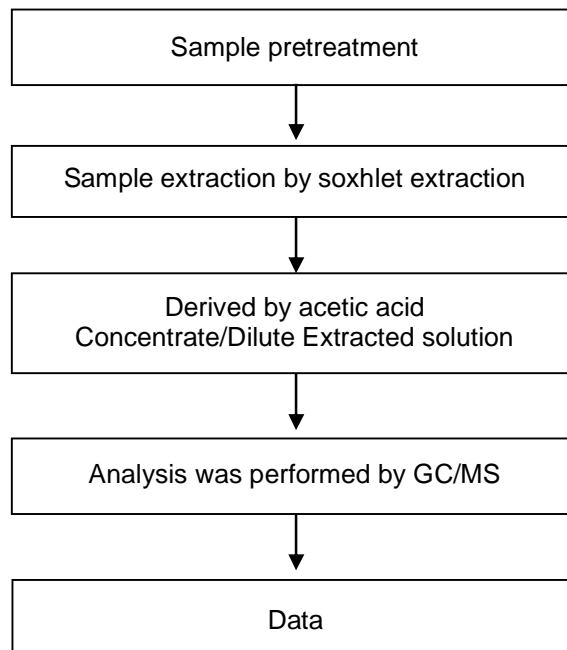
6F., NO. 12, LANE 270, SEC. 3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222



Analytical flow chart

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: TBBP-A 、 Bisphenol A



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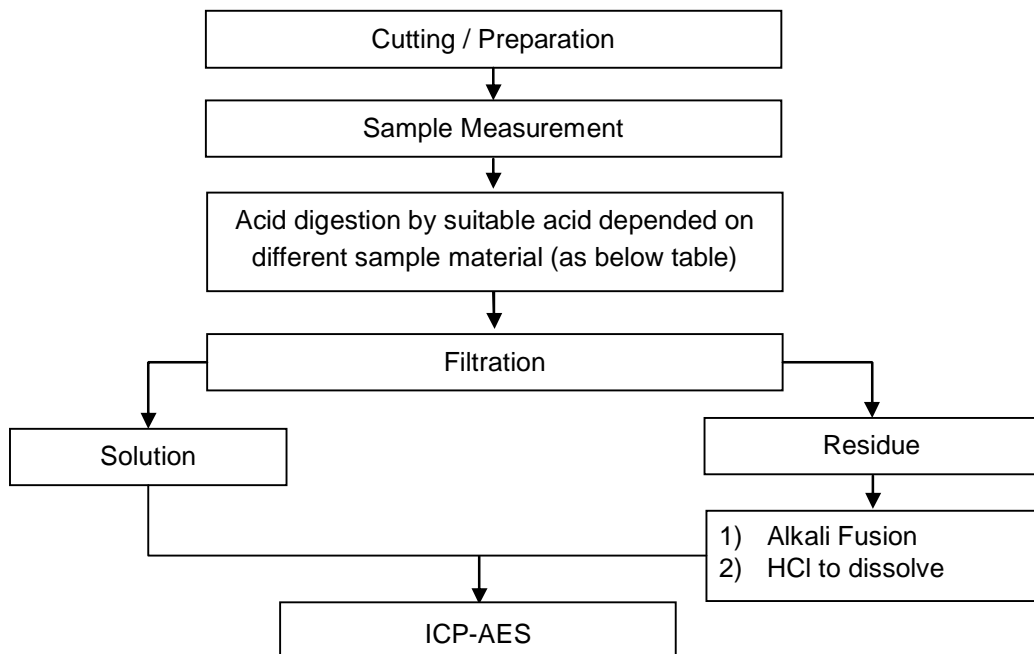
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6F., NO. 12, LANE 270, SEC. 3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of digestion for the elements analysis performed by ICP-AES



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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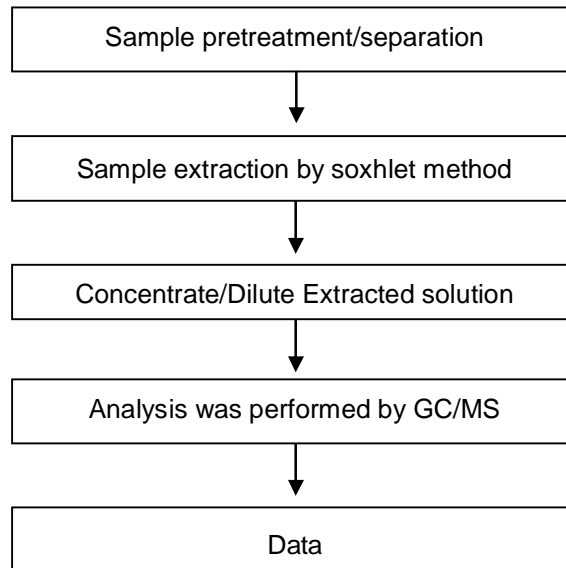
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Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: Phthalate 、 Benzotriazole 、 HBCDD 、 NP 、 DBBT 、
Organic phosphorus compounds



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Test Report

No. : CE/2011/35683 Date : 2011/03/30 Page : 12 of 12

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6F., NO. 12, LANE 270, SEC. 3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222



** End of Report **

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Test Report

No. SHAEC1006698003

Date: 24 May 2010

Page 1 of 6

ZHEJIANG NEWEAST PRINTING INK GROUP CO.,LTD
101 HUANGJIAO ROAD ,HUANGYAN,TAIZHOU,ZHEJIANG

The following sample(s) was/were submitted and identified on behalf of the clients as : WHITE INK

SGS Job No. : SP10-016591 - SH
Model No. : RP-3
Date of Sample Received : 19 May 2010
Testing Period : 19 May 2010 - 24 May 2010
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted samples, the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.

Fan Jingjie, JJ
Approved Signatory

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Test Report

No. SHAEC1006698003

Date: 24 May 2010

Page 2 of 6

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA10-066980.003	White ink

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2002/95/EC

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Unit	MDL	003
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report

No. SHAEC1006698003

Date: 24 May 2010

Page 3 of 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

- (1) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC
- (2) Result shown is of the total weight of wet sample.

Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	127
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

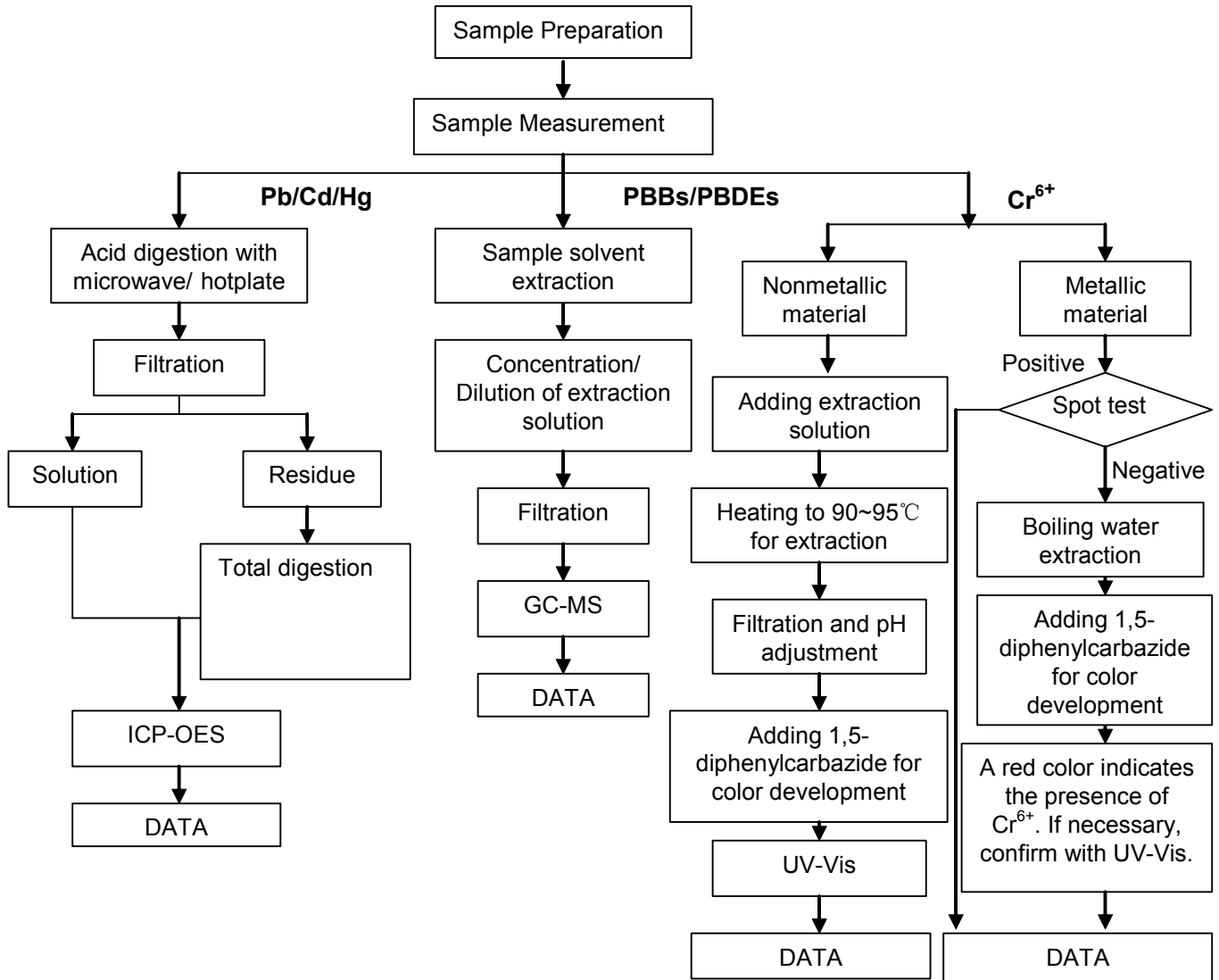
Notes :

- (1) Result shown is of the total weight of wet sample.

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ATTACHMENTS

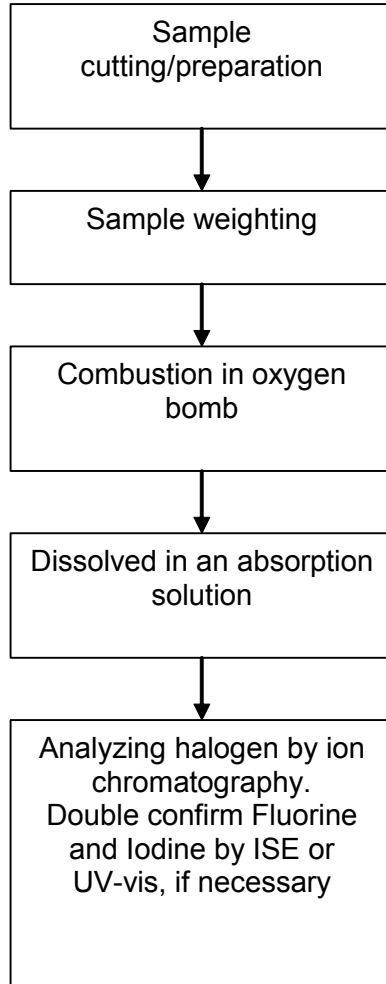
- 1) Name of the person who made measurement: Allan Xiao/Spring Zuo/Frank Fang/ Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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Halogen Measurement Flowchart for sample



Tested by : Daisy Gong
Checked by : Alex Jiang

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Sample photo:



SGS authenticate the photo on original report only

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Test Report

Report No. RLSHD000556330002

Page 1 of 3

Applicant ZHEJIANG NEWEAST PRINTING INK CO.,LTD

Address 101 HUANGJIAO ROAD ,HUANGYAN ,TAIZHOU ,ZHEJIANG

Report on the submitted sample(s) said to be

Sample Name WHITE INK

Sample Description White ink

Part No. RP

Sample Received Date Mar. 14, 2011

Testing Period Mar. 14, 2011 to Mar. 18, 2011

Test Requested To determine the Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonates(PFOS) content in the submitted sample according to the request of client.

Test Method

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Perfluorooctanoic Acid (PFOA)	Refer to US EPA 3550C:2007	LC-MS-MS	5mg/kg
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C:2007	LC-MS-MS	5mg/kg

Test Result(s) Please refer to the following page(s).

Tested by



[Signature]
Technical Manager

Inspected by

Zhong Yijun

Approved by

Date

Mar. 18, 2011

No. 12407024

Test Report

Report No. RLSHD000556330002

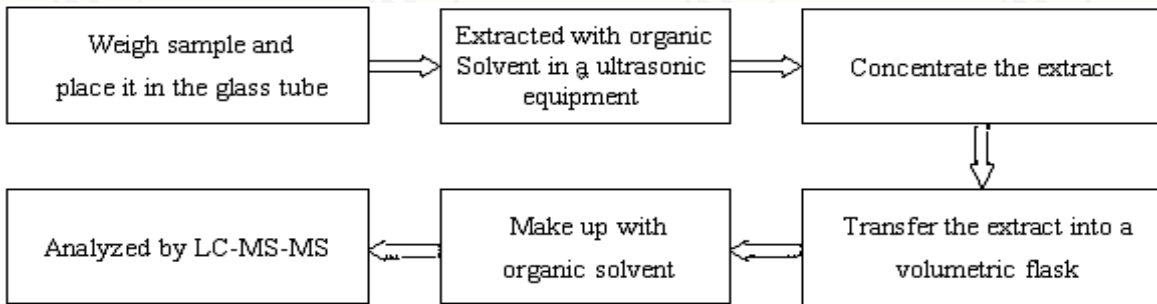
Page 2 of 3

Test Result(s)

Tested Item(s)	Content
Perfluorooctanoic Acid (PFOA)	N.D.
Perfluorooctane Sulfonates(PFOS)	N.D.

Note:
 -MDL = Method Detection Limit
 -N.D. = Not Detected (<MDL)
 -mg/kg = ppm = parts per million

Test Process



Test Report

Report No. RLSHD000556330002

Page 3 of 3

Photo(s) of the sample(s)



*** End of report ***

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