

Test Report

No. : CE/2008/31216 Date : 2008/03/10 Page : 1 of 5

I-PEX JP CO., LTD.
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 GROUND CONTACT
Style/Item No. : 1846-0**
Sample Receiving Date : 2008/03/05
Testing Period : 2008/03/05 TO 2008/03/10

=====
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

Test Report

No. : CE/2008/31216 Date : 2008/03/10 Page : 2 of 5

I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Test Result(s)

PART NAME NO.1 : GOLDEN COLORED METAL (INCLUDING THE PLATING LAYER)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	17
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	n.d.
Gold (Au)	mg/kg	With reference to US EPA Method 3050B for Gold Content. Analysis was performed by ICP-AES.	2	2070
Nickel (Ni)	mg/kg	With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	20600

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing.
The above result(s) was/were only given as the informality value.

Test Report

No. : CE/2008/31216 Date : 2008/03/10 Page : 3 of 5

I-PEX JP CO., LTD.

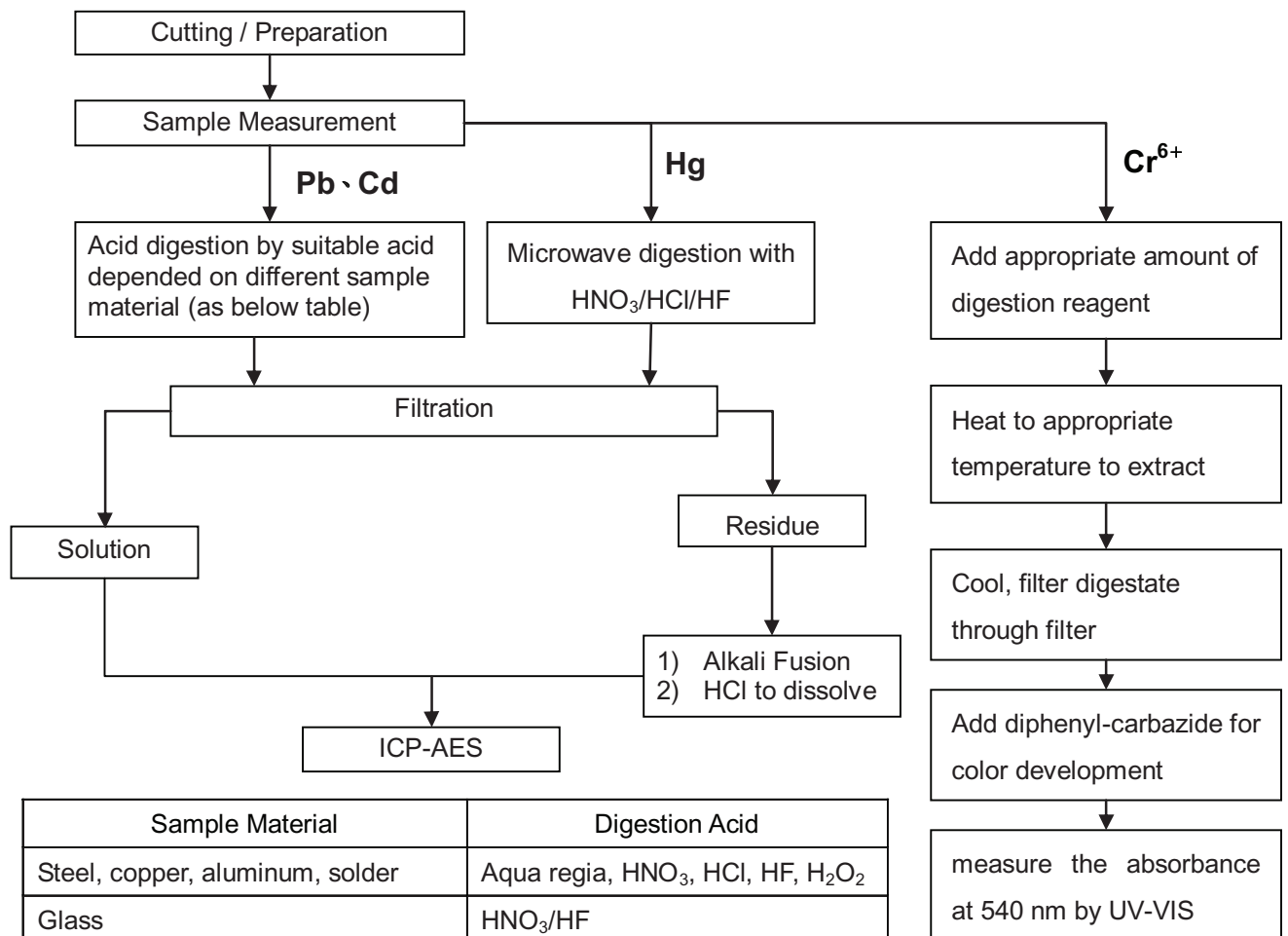
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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: Troy Chang

3) Name of the person in charge of measurement: Chenyu Kung



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

Test Report

No. : CE/2008/31216 Date : 2008/03/10 Page : 4 of 5

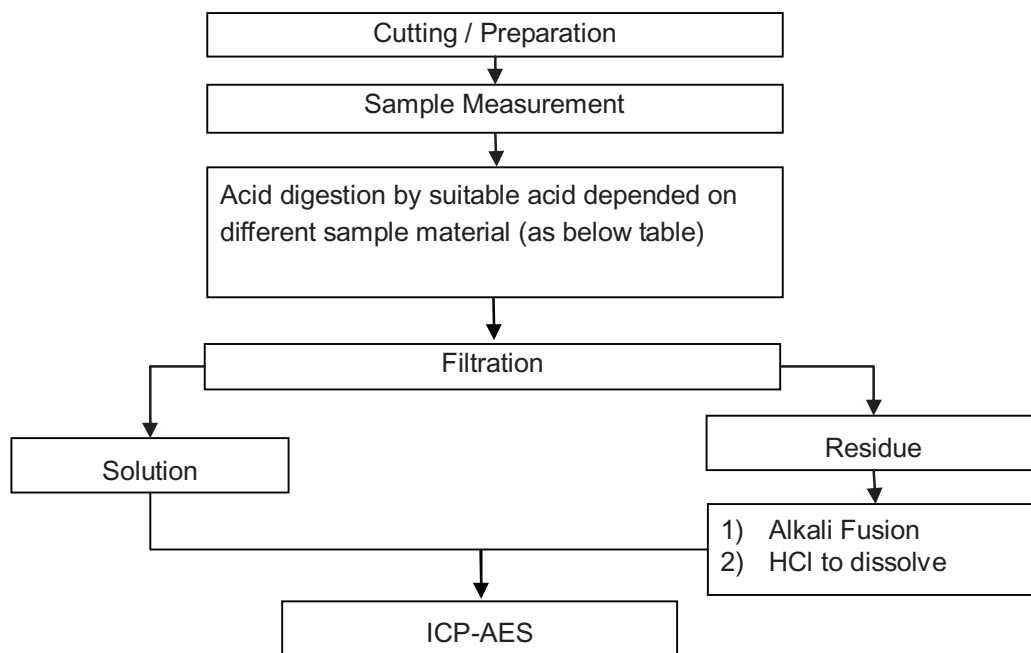
I-PEX JP CO., LTD.

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: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

Flow Chart of Digestion for elements analysis



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

Test Report

No. : CE/2008/31216 Date : 2008/03/10 Page : 5 of 5

I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



** End of Report **

測試報告 Test Report

號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 1 of 19

嘉發實業工廠股份有限公司

CHIA FAR INDUSTRIAL FACTORY CO., LTD.

台北市太原路83號

NO. 83, TAIYUAN RD., 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) : SUS430
收件日期(Sample Receiving Date) : 2008/12/22 AND 2009/01/06
測試期間(Testing Period) : 2008/12/22 TO 2008/12/29 AND 2008/12/30 TO 2009/01/05 AND
2009/01/06 TO 2009/01/10

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 on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs are **compliant** with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

* 此份報告為合併CE/2008/C5529A之報告 *
(This report is combined with reports of CE/2008/C5529)

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

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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司 | Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五權路33號 t + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com

測試報告 Test Report

號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 2 of 19

嘉發實業工廠股份有限公司
CHIA FAR INDUSTRIAL FACTORY CO., LTD.
台北市太原路83號
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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 銀色金屬片 (SILVER COLORED METAL SHEET (CE/2008/C5529A))
測試部位(PART NAME) NO.2 : 銀色金屬片 (SILVER COLORED METAL SHEET (CE/2009/10355))

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	NO.2	
鎘 / Cadmium (Cd)	mg/kg	參考 IEC 62321: 2008 方法, 用感應 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, 用感應 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, 用感應 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 Spot test / boiling water extraction	**	參考 IEC 62321: 2008 方法, 用 Spot test / boiling water extraction 方法檢測. / With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note	0.02mg/kg with 50 cm ² surface area	Negative	---	#
砷 / Arsenic (As)	mg/kg	參考 US EPA 3052 方法, 用感應耦合 電漿原子發射光譜儀 (ICP-AES) 檢 測砷含量. / With reference to US EPA Method 3052 for Arsenic Content. Analysis was performed by ICP-AES.	2	---		-

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測試報告

Test Report

號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 3 of 19

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 台北市太原路83號
 NO. 83, TAIYUAN RD., 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	NO.2	
硒 / Selenium (Se)	mg/kg	參考US EPA 3052 方法, 用感應耦合電漿原子發射光譜儀檢測硒含量。 / With reference to US EPA Method 3052 for Selenium Content. Analysis was performed by ICP-AES.	2	n.d.	---	-
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3050B 方法, 用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.	---	-
銻 / Antimony (Sb)	mg/kg	參考US EPA 3050B 方法, 用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.	---	-
鋇 / Barium (Ba)	mg/kg	參考US EPA 3050B 方法, 用感應耦合電漿原子發射光譜儀檢測鋇含量。 / With reference to US EPA Method 3050B for Barium Content. Analysis was performed by ICP-AES.	2	n.d.	---	-
鎳 / Nickel (Ni)	mg/kg	參考US EPA 3050B 方法, 用感應耦合電漿原子發射光譜儀檢測鎳含量。 / With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	935	---	-

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測試報告

Test Report

號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 4 of 19

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CHIA FAR INDUSTRIAL FACTORY CO., LTD.

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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	NO.2	
氯化石蠟 / Chlorinated Paraffin (C10~C13) (CAS No.: 010871-26-2)	%	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.	---	-
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 000079-94-7)	mg/kg	參考DIN 53313方法, 以氣相層析儀 /質譜儀檢測. / With reference to DIN 53313. Analysis was performed by GC/MS.	10	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.	---	-
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	---	-
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.	---	-

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測試報告

Test Report

號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 5 of 19

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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	NO.2	
鹵素 / Halogen		參考BS EN 14582:2007, 以離子層析儀分析氟, 氯, 溴, 碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for F, Cl, Br, I content.				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析氟含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.	---	-
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.	---	-
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.	---	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.	---	-
可塑劑定量分析 / Phthalates						
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之. / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.	---	-

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測試報告

Test Report

號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 6 of 19

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 NO. 83, TAIYUAN RD., 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	NO.2	
鄰苯二甲酸丁酯苯甲酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. 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)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.	---	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.	---	-
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.01	n.d.	---	-
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.01	n.d.	---	-

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測試報告

Test Report

號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 7 of 19

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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	NO.2	
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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測試報告 Test Report

號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 8 of 19

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台北市太原路83號

NO. 83, TAIYUAN RD., TAIPEI, TAIWAN



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. "---" = Not Conducted (未測項目)
6. ** = Qualitative analysis (No Unit) 定性分析(無單位)
7. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
8. 若為氯化石蠟中單一化合物, 則偵測極限為5ppm (The MDL is 5ppm for the single compound of CP)
9. 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)

10. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement. (Positive表示測試區域之六價鉻不符合RoHS要求)

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement. (Negative表示測試區域之六價鉻符合RoHS要求)

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 μ g/m².

(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 μ g/m² of the coated material.)

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測試報告 Test Report

號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 9 of 19

嘉發實業工廠股份有限公司

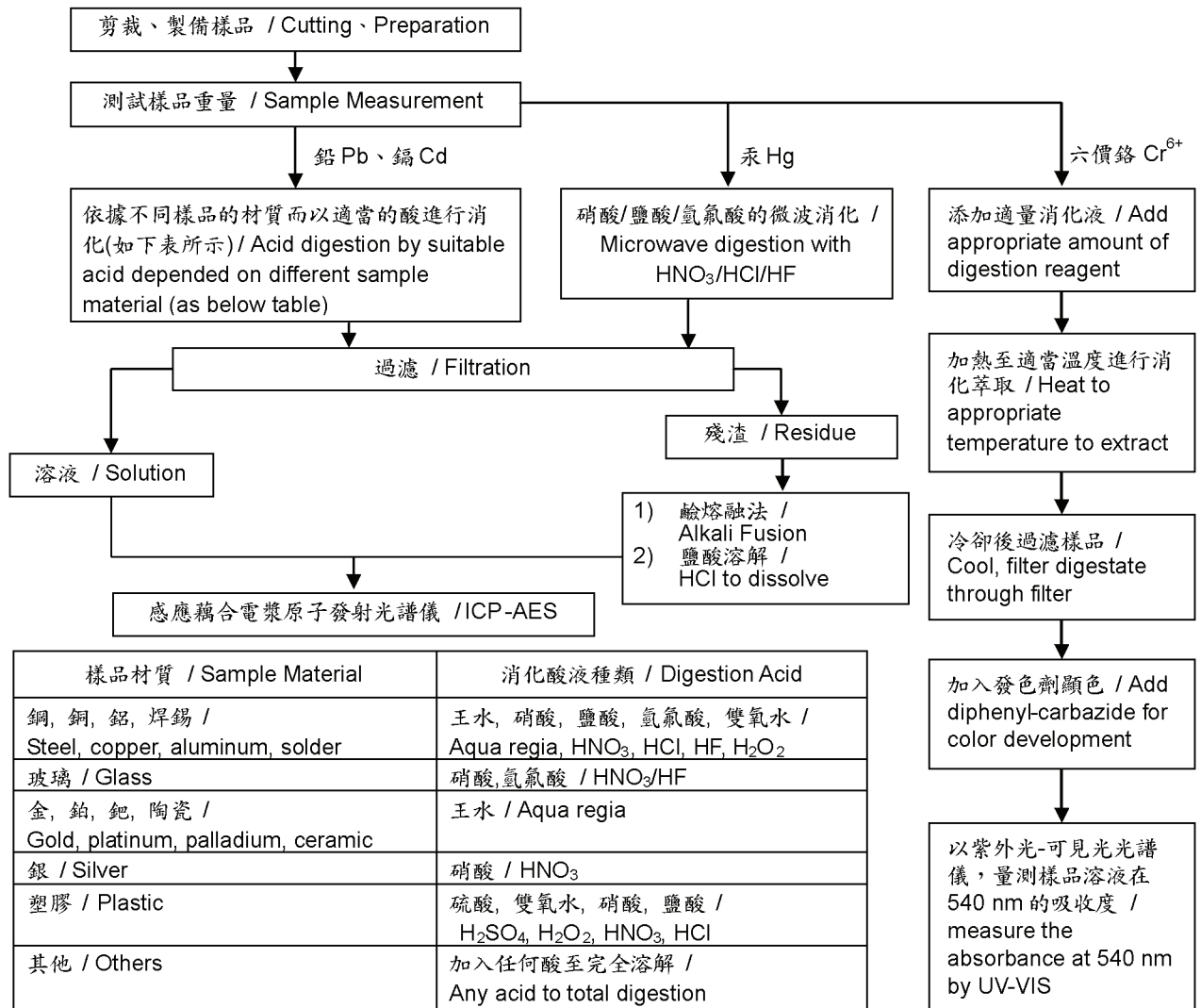
CHIA FAR INDUSTRIAL FACTORY CO., LTD.

台北市太原路83號

NO. 83, TAIYUAN RD., 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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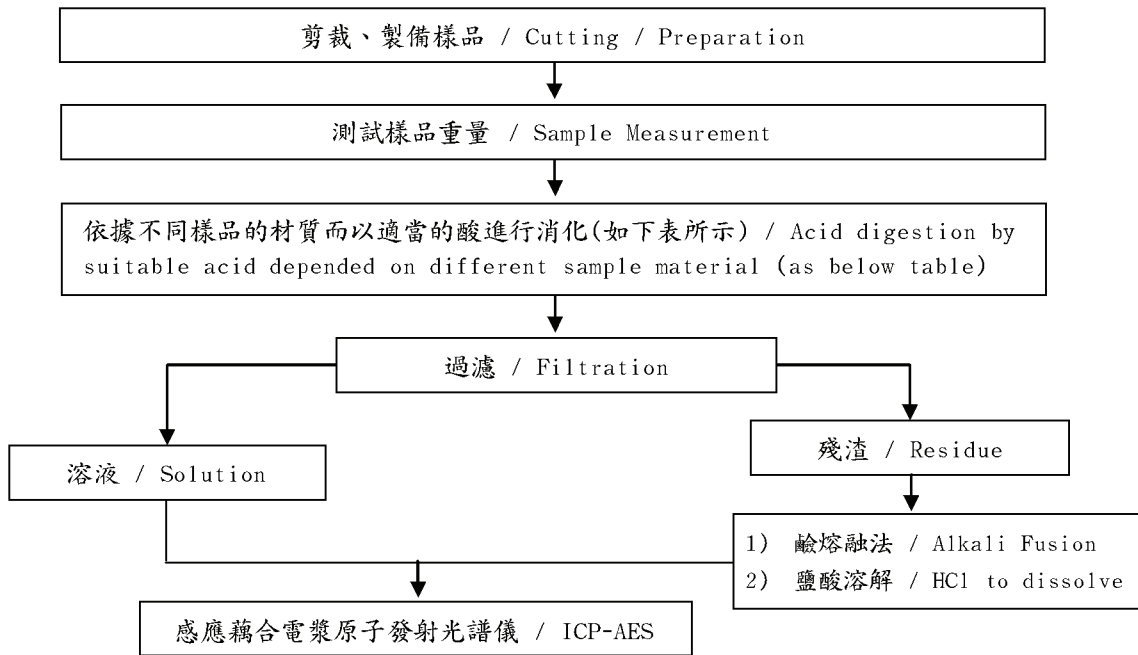
號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 10 of 19

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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

元素的消化流程圖 (Flow Chart of Digestion for elements analysis)



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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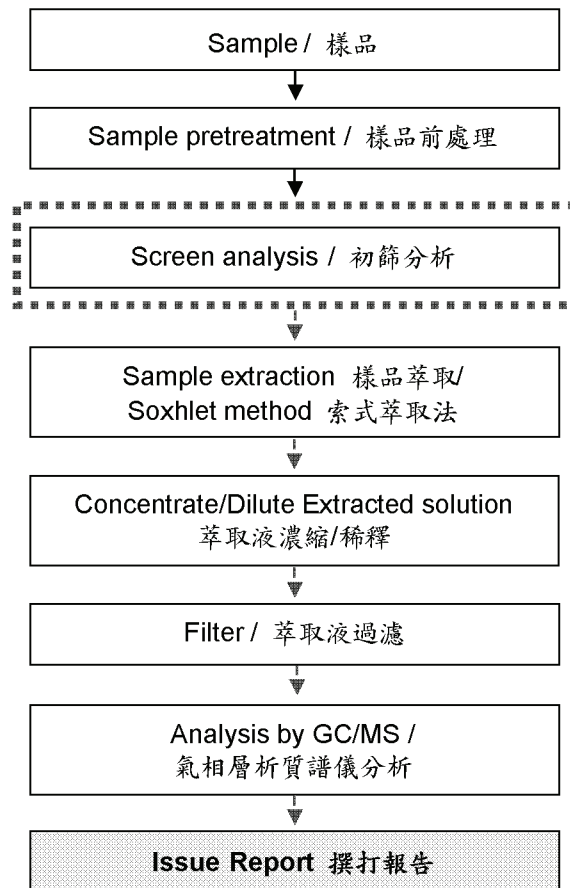
號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 11 of 19

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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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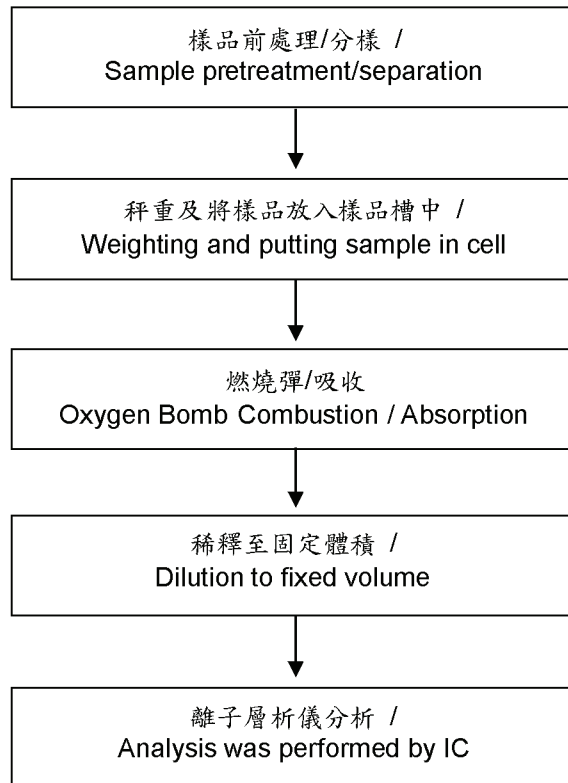
號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 12 of 19

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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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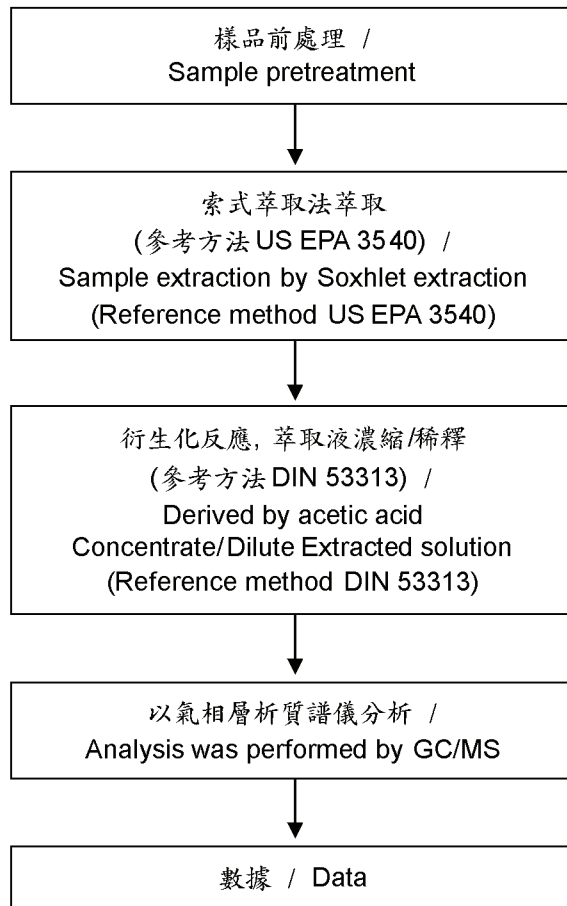
號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 13 of 19

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四溴雙酚-A分析流程圖 / TBBP-A analytical flow chart

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



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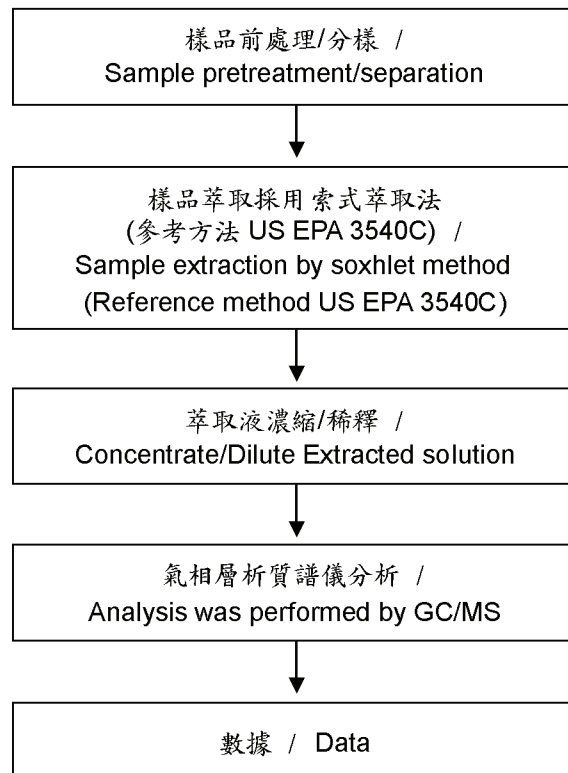
號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 14 of 19

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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 1) 測試人員：徐毓明 / Name of the person who made measurement: Andy Shu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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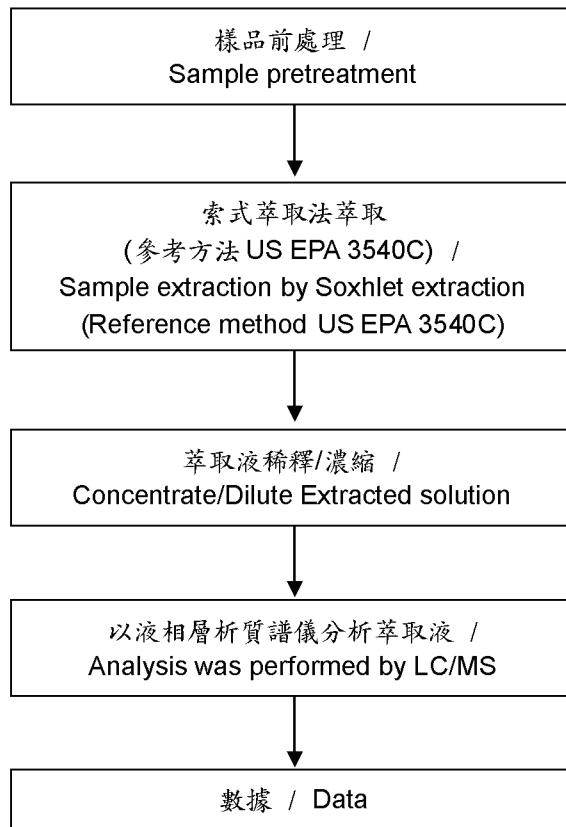
號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 15 of 19

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全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

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



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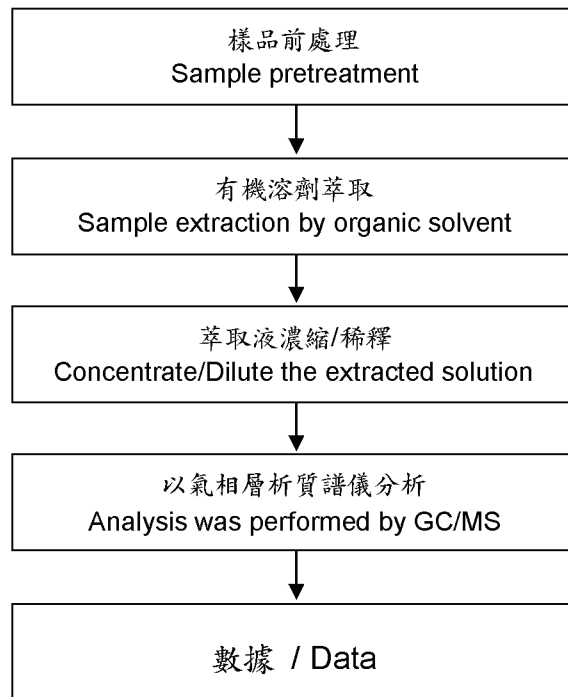
號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 16 of 19

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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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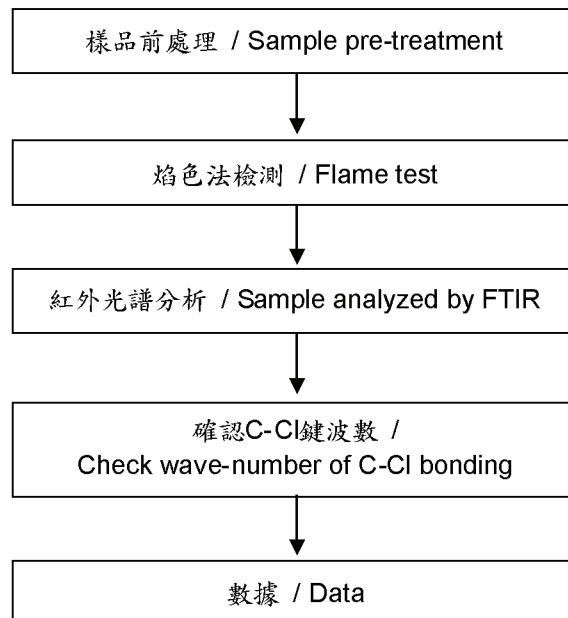
號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 17 of 19

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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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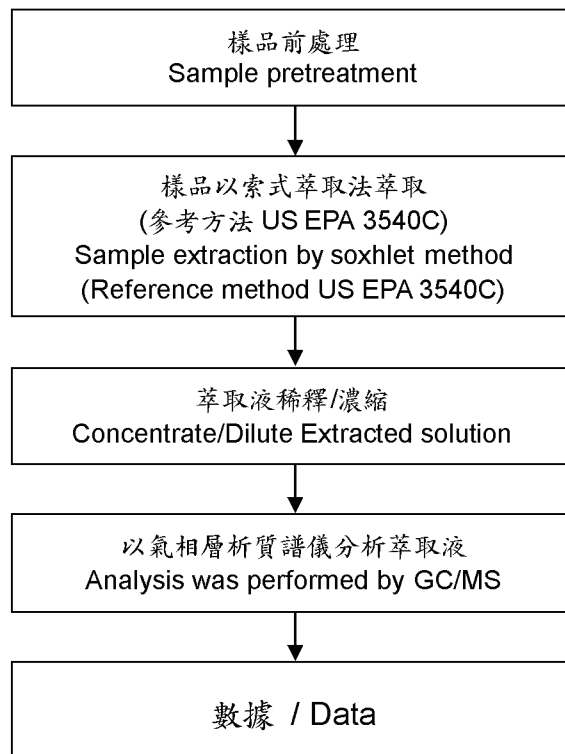
號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 18 of 19

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苯並三唑類化合物分析流程圖 / Analytical flow chart of benzotriazole content

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



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。

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測試報告 Test Report

號碼(No.) : CE/2009/10355A 日期(Date) : 2009/01/10 頁數(Page) : 19 of 19

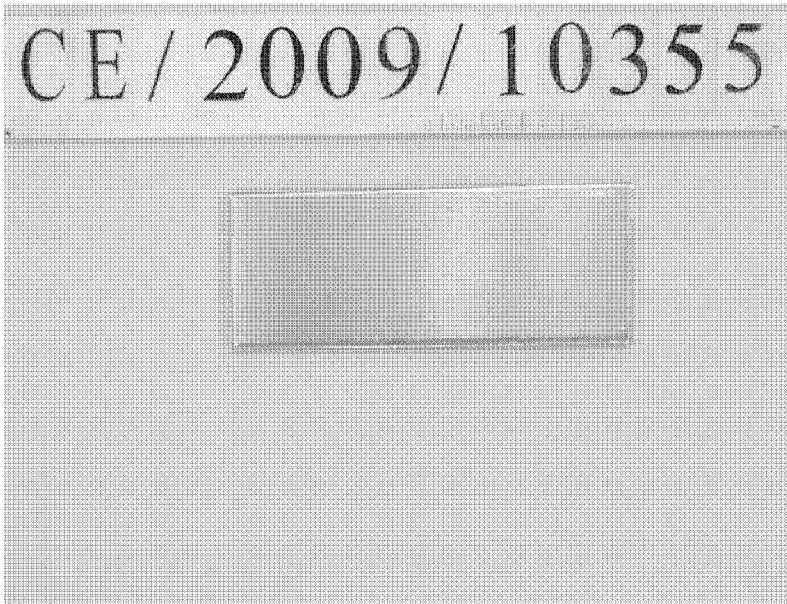
嘉發實業工廠股份有限公司
CHIA FAR INDUSTRIAL FACTORY CO., LTD.
台北市太原路83號
NO. 83, TAIYUAN RD., TAIPEI, TAIWAN



測試部位(PART NAME) NO.1



測試部位(PART NAME) NO.2



** 報告結尾(End of Report) **

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測試報告

Test Report

號碼(No.) : CE/2008/32645 日期(Date) : 2008/03/17 頁數(Page) : 1 of 8

新原金屬工業股份有限公司
SOLNET METAL INDUSTRY CO., LTD.
台北縣新莊市化成路83巷9號
9, LANE 83, HWA CHENG RD., HSIN CHUANG, TAIPEI HSIEN, 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) : 無鉛錒錫 (LEAD-FREE SOLDER)
樣品型號(Style/Item No.) : M708(E) *適用主成份(Sn97/3Ag)無鉛錒錫系列產品
批號(Lot) : M708E LOT:HB156, M708 LOT:HC158, M708 WIRE LOT:HC158
收件日期(Sample Receiving Date) : 2008/03/07
測試期間(Testing Period) : 2008/03/07 TO 2008/03/17

=====
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

測試報告

Test Report

號碼(No.) : CE/2008/32645 日期(Date) : 2008/03/17 頁數(Page) : 2 of 8

新原金屬工業股份有限公司
SOLNET METAL INDUSTRY CO., LTD.
台北縣新莊市化成路83巷9號
9, LANE 83, HWA CHENG RD., HSIN CHUANG, TAIPEI HSIEN, TAIWAN.



測試結果(Test Results)

測試部位(PART NAME) NO.1 : 銀色金屬棒 (SILVER COLORED METAL BAR)

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 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鎘含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鉛含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	242
汞 / Mercury (Hg)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測汞含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	針對金屬材質之樣品, 參考IEC 62321/2nd CDV (111/95/CDV)方法 檢測, 用Spot test / Colorimetric方法檢測六價鉻含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method. (See Note 5)	0.02mg/kg with 50 cm ² surface area	Negative

測試報告

Test Report

號碼(No.) : CE/2008/32645 日期(Date) : 2008/03/17 頁數(Page) : 3 of 8

新原金屬工業股份有限公司
SOLNET METAL INDUSTRY CO., LTD.
台北縣新莊市化成路83巷9號
9, LANE 83, HWA CHENG RD., HSIN CHUANG, TAIPEI HSIEN, 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)
				NO.1
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方法, 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE 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 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)			-	n.d.
一溴聯苯醚 / Monobromobiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromobiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromobiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromobiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromobiphenyl ether			5	n.d.
六溴聯苯醚 / Hexabromobiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromobiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromobiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromobiphenyl ether	5	n.d.		
十溴聯苯醚 / Decabromobiphenyl ether	5	n.d.		
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)	-	n.d.		
鹵素 / Halogen	---	參考BS EN 14582:2007, 以離子層析儀分析氟, 氯, 溴, 碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for F, Cl, Br, I content.	---	n.d.
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 007782-41-4)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析氟含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.

測試報告

Test Report

號碼(No.) : CE/2008/32645 日期(Date) : 2008/03/17 頁數(Page) : 4 of 8

新原金屬工業股份有限公司
SOLNET METAL INDUSTRY CO., LTD.
台北縣新莊市化成路83巷9號
9, LANE 83, HWA CHENG RD., HSIN CHUANG, TAIPEI HSIEN, 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)
				NO.1
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 007782-50-5)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 007726-95-6)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 007553-56-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	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. 根據2005年10月13日歐盟會議公佈2005/717/EC, 修訂2002/95/EC內容, 通過解除高分子材質中十溴聯苯醚之使用限制. (According to 2005/717/EC DecaBDE is exempt.)
5. 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)
6. "-" = Not Regulated (無規格值)
7. "---" = Not Conducted (未測項目)
8. ** = Qualitative analysis (No Unit) 定性分析(無單位)

測試報告

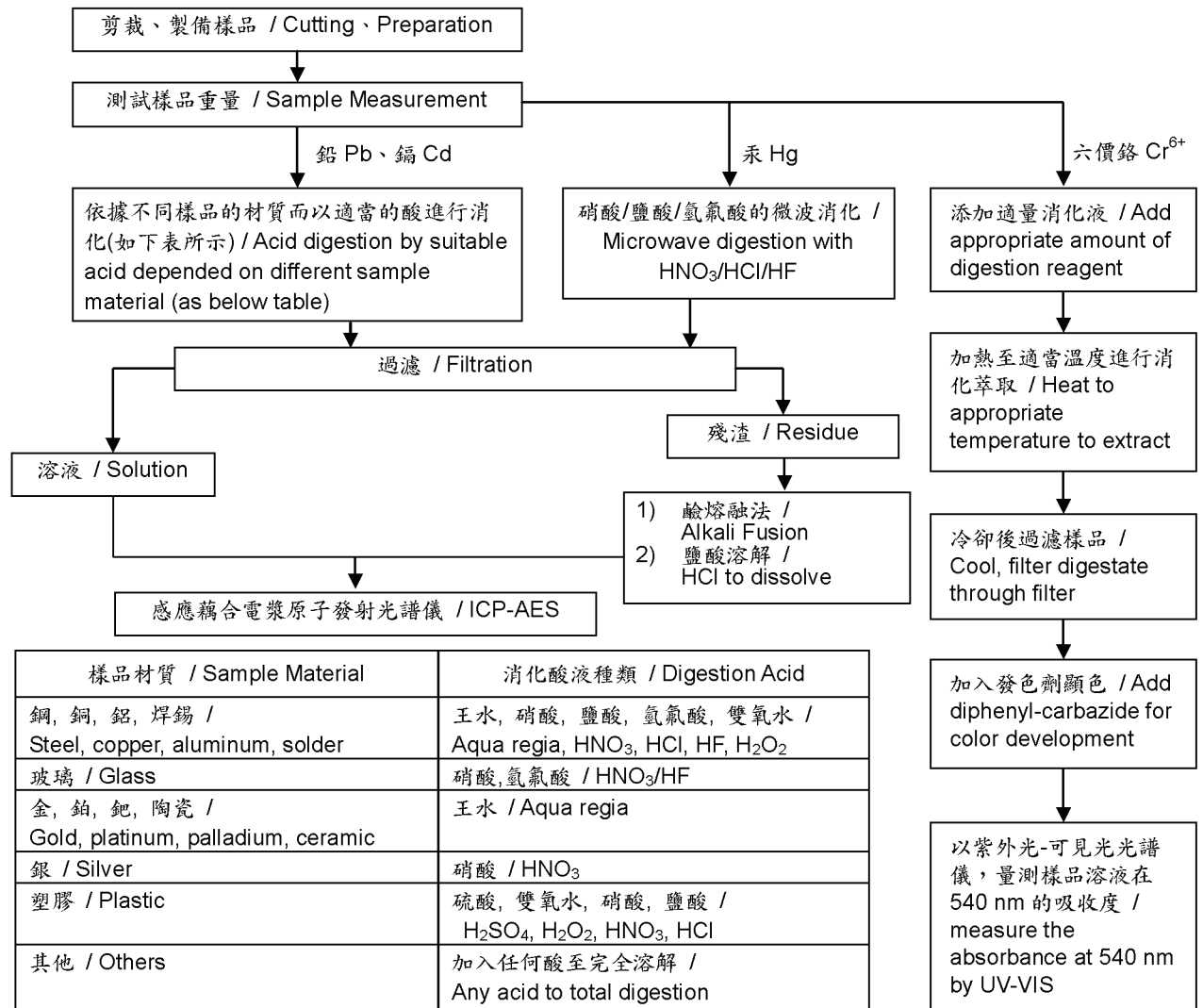
Test Report

號碼(No.) : CE/2008/32645 日期(Date) : 2008/03/17 頁數(Page) : 5 of 8

新原金屬工業股份有限公司
SOLNET METAL INDUSTRY CO., LTD.
台北縣新莊市化成路83巷9號
9, LANE 83, HWA CHENG RD., HSIN CHUANG, TAIPEI HSIEN, 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：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung



測試報告 Test Report

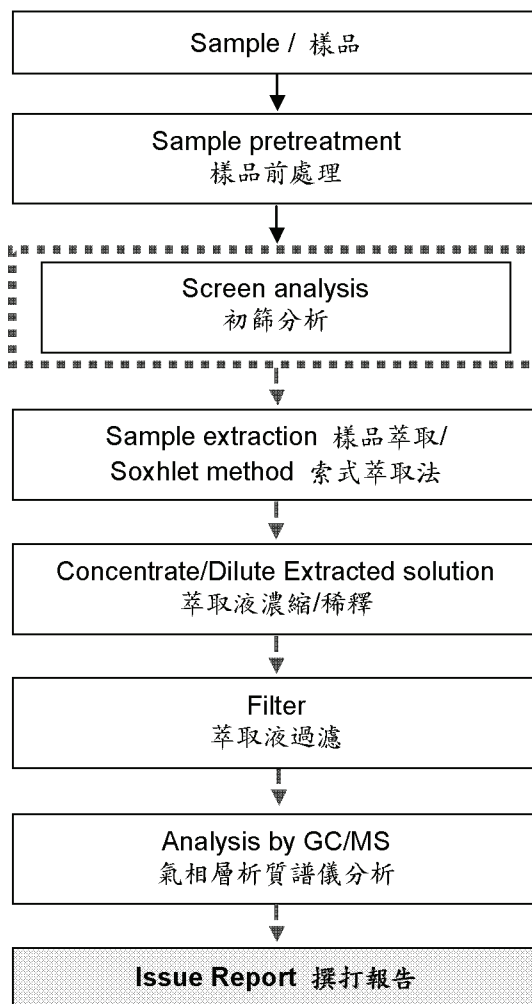
號碼(No.) : CE/2008/32645 日期(Date) : 2008/03/17 頁數(Page) : 6 of 8

新原金屬工業股份有限公司
SOLNET METAL INDUSTRY CO., LTD.
台北縣新莊市化成路83巷9號
9, LANE 83, HWA CHENG RD., HSIN CHUANG, TAIPEI HSIEN, TAIWAN.



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

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 - - - ▶



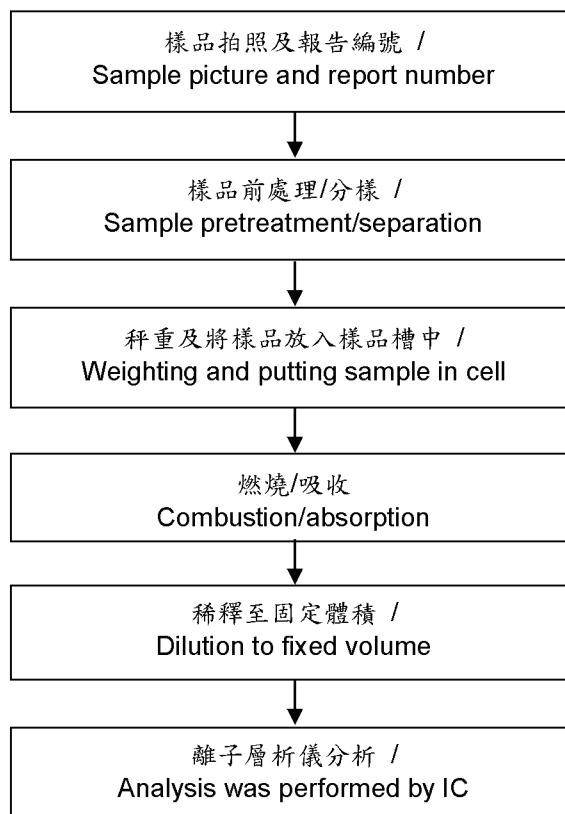
測試報告 Test Report

號碼(No.) : CE/2008/32645 日期(Date) : 2008/03/17 頁數(Page) : 7 of 8

新原金屬工業股份有限公司
SOLNET METAL INDUSTRY CO., LTD.
台北縣新莊市化成路83巷9號
9, LANE 83, HWA CHENG RD., HSIN CHUANG, TAIPEI HSIEN, TAIWAN.



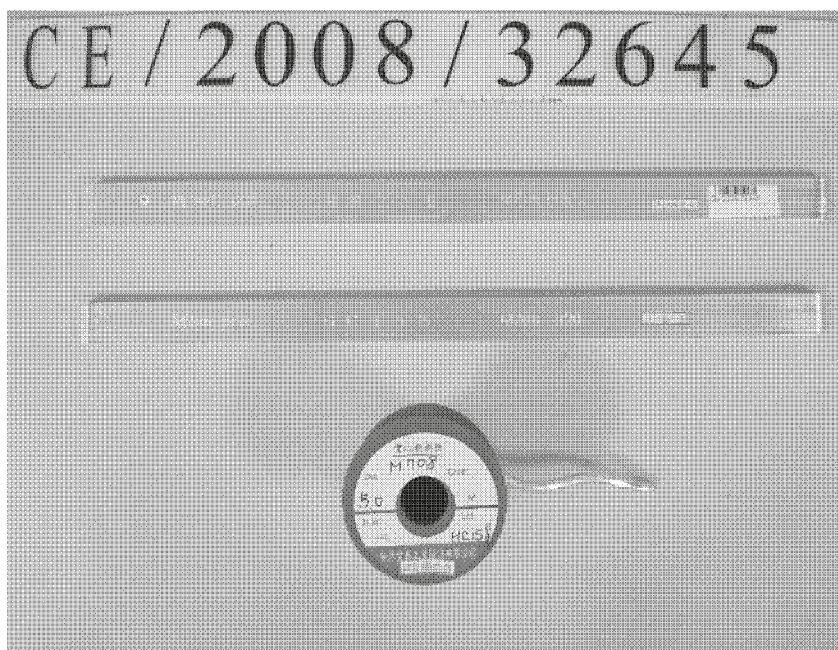
鹵素分析流程圖 / Analytical flow chart of halogen content



測試報告 Test Report

號碼(No.) : CE/2008/32645 日期(Date) : 2008/03/17 頁數(Page) : 8 of 8

新原金屬工業股份有限公司
SOLNET METAL INDUSTRY CO., LTD.
台北縣新莊市化成路83巷9號
9, LANE 83, HWA CHENG RD., HSIN CHUANG, TAIPEI HSIEN, TAIWAN.



** 報告結尾 **

Test Report

No. : CE/2007/91193

Date : 2007/09/13

Page : 1 of 5

GUAN JER INTERNATIONAL., LTD.
NO. 1, FONG-SHIU SIX TH STREET, GUEI-SAN SIANG, TAC-YUAN SIEN,
TAIWAN



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

Sample Description : SONY G4000, G9000SY, G9000R, G9303S, G9900 SERIES
Sample Receiving Date : 2007/09/06
Testing Period : 2007/09/06 TO 2007/09/13

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
Test Method : With reference to IEC 62321, Ed.1 111/54/CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
(1) Determination of Cadmium by ICP-AES.
(2) Determination of Lead by ICP-AES.
(3) Determination of Mercury by ICP-AES.
(4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
(5) Determination of PBB and PBDE by GC/MS.
Test Result(s) : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted samples, the test results are **compliant 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

Test Report

No. : CE/2007/91193

Date : 2007/09/13

Page : 2 of 5

GUAN JER INTERNATIONAL., LTD.
NO. 1, FONG-SHIU SIX TH STREET, GUEI-SAN SIANG, TAC-YUAN SIEN,
TAIWAN



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL	RoHS Limit
		No.1		
Cadmium (Cd)	(1)	n.d.	2	100
Lead (Pb)	(2)	n.d.	2	1000
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	1000
Sum of PBBs	(5)	n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-	1000
Monobromobiphenyl ether		n.d.	5	-
Dibromobiphenyl ether		n.d.	5	-
Tribromobiphenyl ether		n.d.	5	-
Tetrabromobiphenyl ether		n.d.	5	-
Pentabromobiphenyl ether		n.d.	5	-
Hexabromobiphenyl ether		n.d.	5	-
Heptabromobiphenyl ether		n.d.	5	-
Octabromobiphenyl ether		n.d.	5	-
Nonabromobiphenyl ether	n.d.	5	-	
Decabromobiphenyl ether	n.d.	5	-	
Sum of PBDEs (Mono to Deca)	n.d.	-	-	

TEST PART DESCRIPTION:

NO.1 : TRANSPARENT TWIN ADHESIVE (EXCLUDING THE RELEASE PAPER)

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. "-" = Not Regulated

Test Report

No. : CE/2007/91193

Date : 2007/09/13

Page : 3 of 5

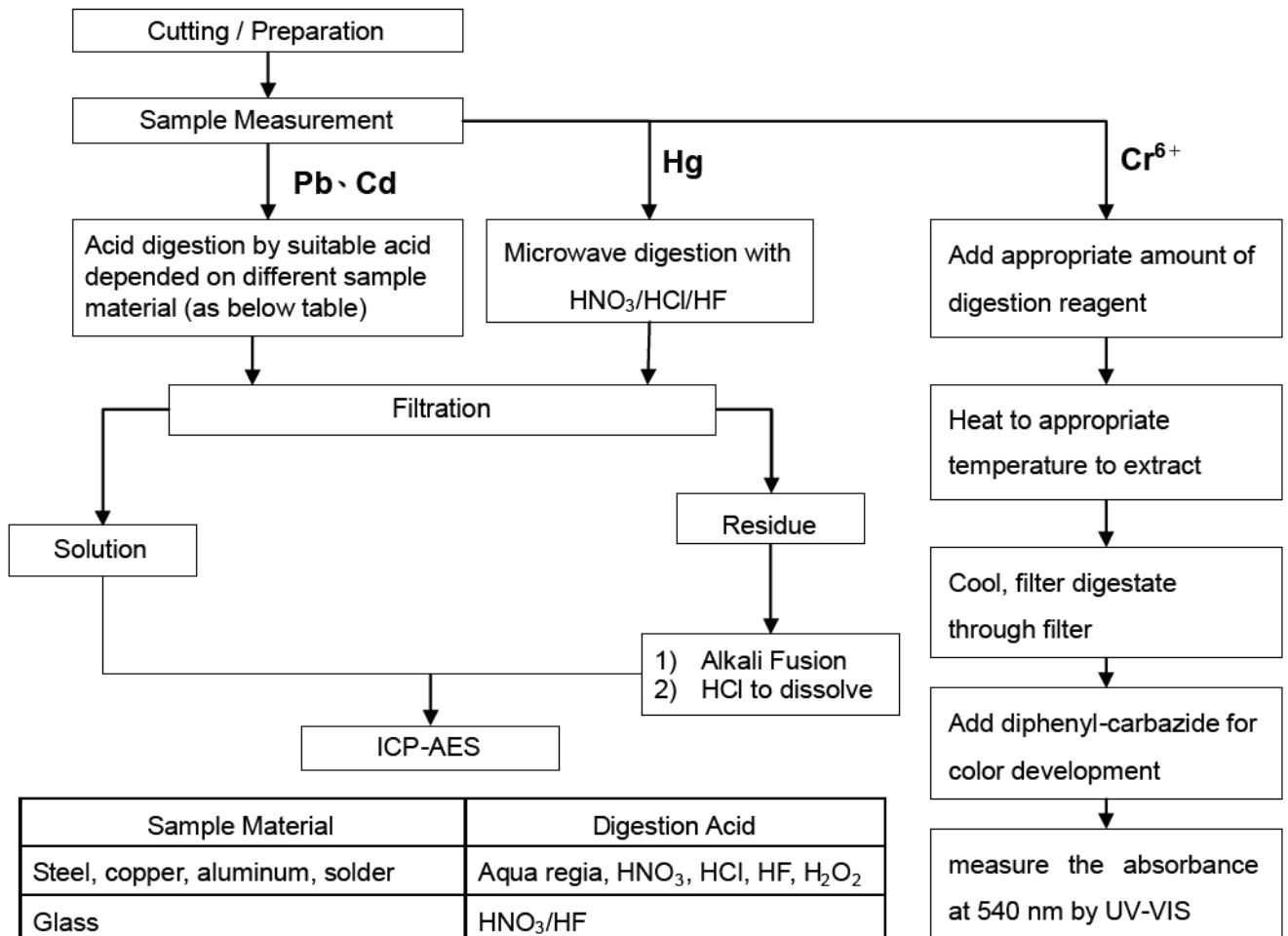
GUAN JER INTERNATIONAL., LTD.
 NO. 1, FONG-SHIU SIX TH STREET, GUEI-SAN SIANG, TAC-YUAN SIEN,
 TAIWAN



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: Troy Chang

3) Name of the person in charge of measurement: Chenyu Kung

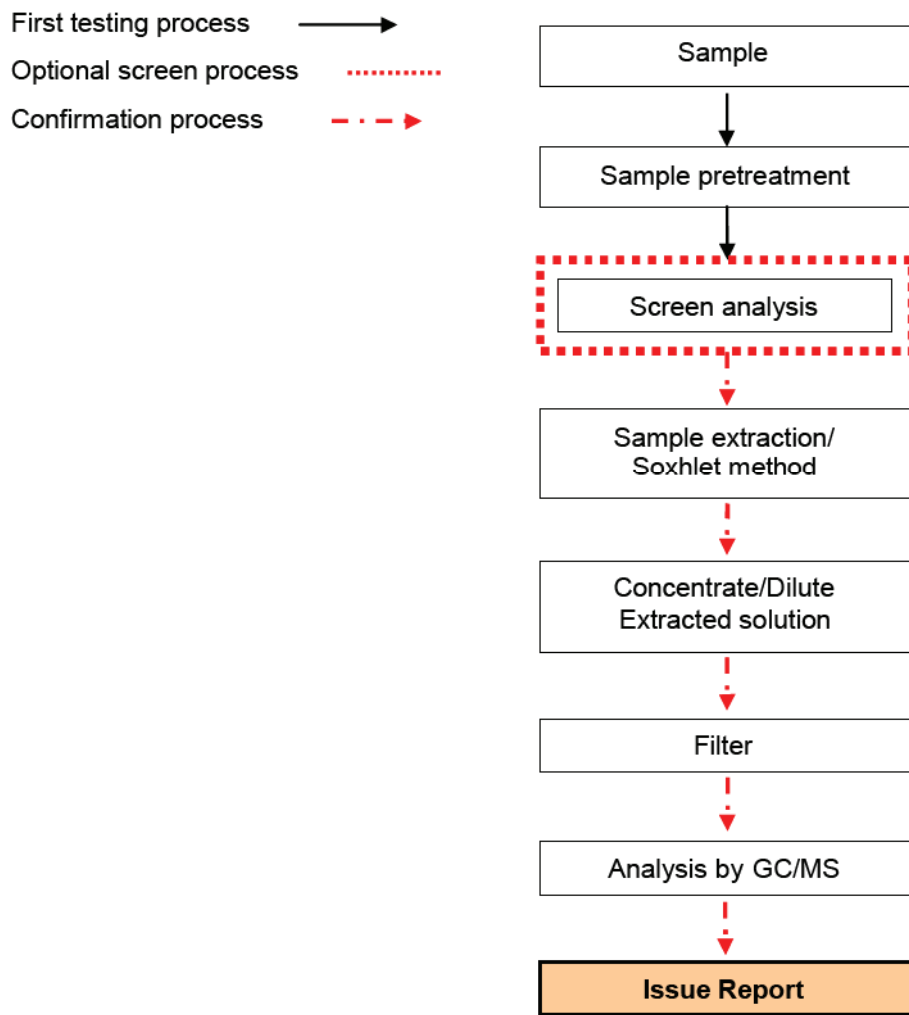


Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

GUAN JER INTERNATIONAL., LTD.
 NO. 1, FONG-SHIU SIX TH STREET, GUEI-SAN SIANG, TAC-YUAN SIEN,
 TAIWAN



PBB/PBDE analytical FLOW CHART

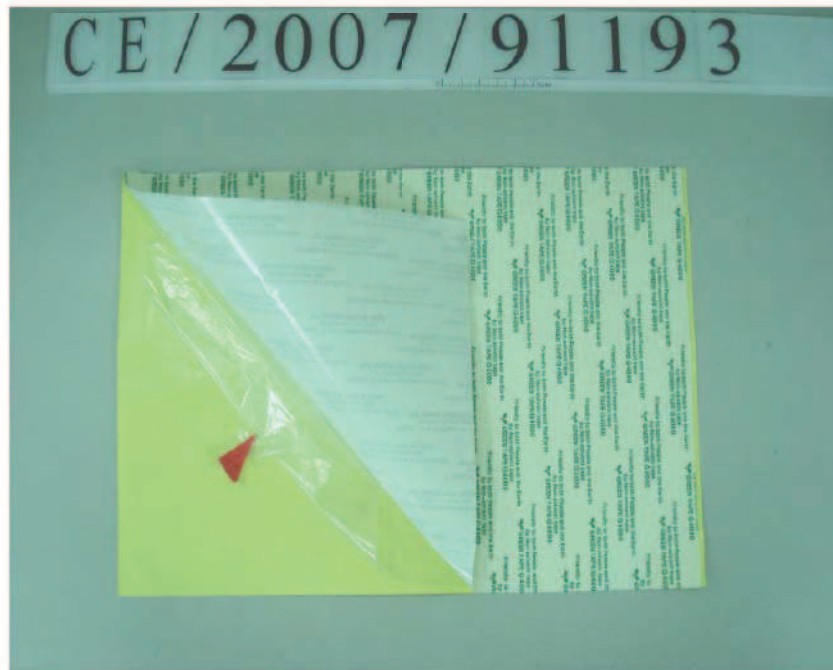


Test Report

No. : CE/2007/91193 Date : 2007/09/13

Page : 5 of 5

GUAN JER INTERNATIONAL., LTD.
NO. 1, FONG-SHIU SIX TH STREET, GUEI-SAN SIANG, TAC-YUAN SIEN,
TAIWAN



**** End of Report ****



Signature Not Verified
For Question,
Please Contact with SGS
www.tw.sgs.com

測試報告 Test Report

號碼(No.) : CE/2008/32428 日期(Date) : 2008/03/18 頁數(Page) : 1 of 19

正隆股份有限公司
CHENG LOONG CORP.
台北縣板橋市民生路一段1號
NO. 1, MIN-SHENG RD., SEC. 1, PANCHIAO CITY, TAIPEI HSIEN, 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)	: 線面紙板 (LINER BOARD)
樣品型號(Style/Item No.)	: 正隆色 (COLOR: CA)
收件日期(Sample Receiving Date)	: 2008/03/07
測試期間(Testing Period)	: 2008/03/07 TO 2008/03/18

=====
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 on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs are compliant 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



測試報告 Test Report

號碼(No.): CE/2008/32428 日期(Date): 2008/03/18 頁數(Page): 2 of 19

正隆股份有限公司
CHENG LOONG CORP.
台北縣板橋市民生路一段1號
NO. 1, MIN-SHENG RD., SEC. 1, PANCHIAO CITY, TAIPEI HSIEN, TAIWAN



測試結果(Test Results)

測試部位(PART NAME) NO.1 : 土黃 / 灰色紙 (YELLOWISH BROWN / GRAY PAPER)

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US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鎘含量。 / With reference to US EPA Method 3052 for Cadmium Content. Analysis was performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鉛含量。 / With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.	2	20	1000
汞 / Mercury (Hg)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測汞含量。 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	n.d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	針對非金屬材質之樣品, 參考US EPA 3060A方法, 用UV-VIS (US EPA 7196A) 檢測六價鉻含量。 / With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis was performed by UV-Vis Spectrometry.	2	n.d.	1000
五氯酚 / PCP (Pentachlorophenol) (CAS No.: 000087-86-5)	mg/kg	參考US EPA 8041方法, 以氣相層析質譜儀檢測。 / With reference to US EPA 8041 method, analysis was performed by GC/MS.	1	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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測試報告 Test Report

號碼(No.): CE/2008/32428 日期(Date): 2008/03/18 頁數(Page): 3 of 19

正隆股份有限公司
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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	-
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 007782-50-5)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析氯含量。 / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	113	-
鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 007726-95-6)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析溴含量。 / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.	-
全氟辛酸(銨) / PFOA	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.	1	n.d.	-
全氟辛磺酸 / PFOS	mg/kg	參考US EPA 3540C : 1996方法, 以液 相層析質譜儀檢測全氟辛磺酸含量。 / With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was performed by LC/MS.	1	n.d.	-
多溴聯苯總和 / Sum of PBBs	mg/kg	參考US EPA 3540C方法, 以氣相層析儀 /質譜儀檢測多溴聯苯和多溴聯苯醚含 量。 / With reference to US EPA 3540C for PBB/PBDE Content. Analysis was 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.	-		

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測試報告 Test Report

號碼(No.): CE/2008/32428 日期(Date): 2008/03/18 頁數(Page): 4 of 19

正隆股份有限公司
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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	
多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)	mg/kg	參考US EPA 3540C方法, 以氣相層析儀 / 質譜儀檢測多溴聯苯和多溴聯苯醚含量。 / With reference to US EPA 3540C for PBB/PBDE Content. Analysis was performed by GC/MS.	-	n.d.	1000
一溴聯苯醚 / Monobromobiphenyl ether			5	n.d.	-
二溴聯苯醚 / Dibromobiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromobiphenyl ether			5	n.d.	-
四溴聯苯醚 / Tetrabromobiphenyl ether			5	n.d.	-
五溴聯苯醚 / Pentabromobiphenyl ether			5	n.d.	-
六溴聯苯醚 / Hexabromobiphenyl ether			5	n.d.	-
七溴聯苯醚 / Heptabromobiphenyl ether			5	n.d.	-
八溴聯苯醚 / Octabromobiphenyl ether			5	n.d.	-
九溴聯苯醚 / Nonabromobiphenyl ether			5	n.d.	-
十溴聯苯醚 / Decabromobiphenyl ether			5	n.d.	-
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)			-	n.d.	-
臭氣危害物質ODCs定量分析 / CFC's (Chlorofluorocarbons)	---	---	---	---	---
Group I	---	---	---	---	---
Chlorofluorocarbon-11 (CAS No.: 000075-69-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-12 (CAS No.: 000075-71-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-113 (CAS No.: 000076-13-1)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-114 (CAS No.: 000076-14-2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)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

號碼(No.): CE/2008/32428 日期(Date): 2008/03/18 頁數(Page): 5 of 19

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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	
Chlorofluorocarbon-115 (CAS No.: 000076-15-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Group III	---	---	---	---	---
Chlorofluorocarbon-113 (CAS No.: 000075-72-9)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-111 (CAS No.: 000354-56-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-112 (CAS No.: 000076-12-0)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-211 (CAS No.: 135401-87-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-212 (CAS No.: 076564-99-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-213 (CAS No.: 060285-54-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-214 (CAS No.: 002268-46-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



測試報告 Test Report

號碼(No.): CR/2008/32428 日期(Date): 2008/03/18 頁數(Page): 6 of 19

正隆股份有限公司
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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	
Chlorofluorocarbon-215 (CAS No.: 000076-17-5)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-216 (CAS No.: 001652-80-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Chlorofluorocarbon-217 (CAS No.: 000422-86-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halons)	---	---	---	---	---
Halon-1211 (CAS No.: 000353-59-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Halon-1301 (CAS No.: 000075-63-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Halon-2402 (CAS No.: 000124-73-2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
臭氣危害物質ODCs (HCFCs) 定量分析 / HCFC's (Hydrogenated chlorofluorocarbons)	---	---	---	---	---
Hydrochlorofluorocarbon-21 (CAS No.: 000075-43-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-22 (CAS No.: 000075-45-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)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

號碼(No.): CE/2008/32428 日期(Date): 2008/03/18 頁數(Page): 7 of 19

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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	法規 限值 (Limit)
Hydrochlorofluorocarbon-31 (CAS No.: 000593-70-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-121 (CAS No.: 000354-14-3)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-122 (CAS No.: 000354-21-2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-123 (CAS No.: 000306-83-2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-124 (CAS No.: 002837-89-0)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-131 (CAS No.: 000359-28-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-132a (CAS No.: 000471-43-2)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-133a (CAS No.: 000075-88-7)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-141b (CAS No.: 001717-00-6)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)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

號碼(No.): CE/2008/32428 日期(Date): 2008/03/18 頁數(Page): 8 of 19

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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	法規 限值 (Limit)
Hydrochlorofluorocarbon-221 (CAS No.: 000422-26-4)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-222 (CAS No.: 000422-30-0)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-223	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-224	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-225ca (CAS No.: 000422-56-0)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-225cb (CAS No.: 000507-55-1)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-226 (CAS No.: 000431-87-8)	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-231	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Hydrochlorofluorocarbon-232	mg/kg	參考US EPA 5021方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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