

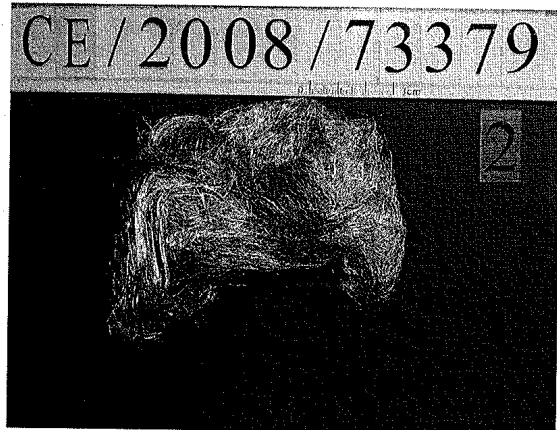
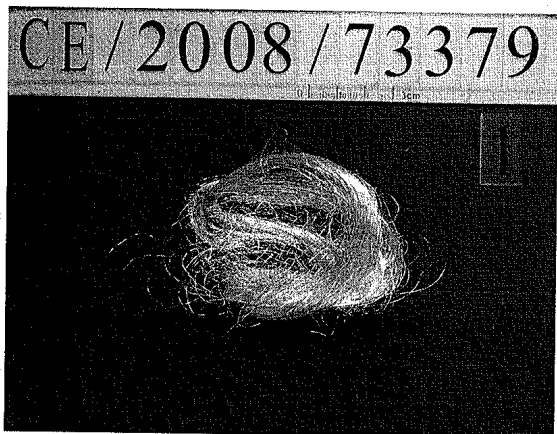
測試報告 Test Report

號碼(No.) : CE/2008/73379 日期(Date) : 2008/07/16 頁數(Page) : 4 of 4

萬泰科技股份有限公司
WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



** 報告結尾 **

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測試報告

Test 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) : RF COAXIAL CABLE RG-178B/U, RG-179/U, RG-316U MINI 0.8mm, 1.13mm, 1.32mm, 1.37mm, 1.48mm, RF405A UL 1330, 1331, 1332, 1333, 1726, 1867, 10231, 10064

樣品型號(Style/Item No.) : BLACK(BK4025), BROWN(BN4027), RED(RD4026), ORANGE(OR4020), YELLOW(YE4029), GREEN(GN4023), BLUE(BL4021), PURPLE(PU4024), GRAY(GY4028), WHITE(WT4022)

收件日期(Sample Receiving Date) : 2009/1/9

測試期間(Testing Period) : 2009/1/9 TO 2009/1/15

=====
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(PART NAME) NO.1	:	黑色塑膠粒 (BLACK PLASTIC PELLETS)
測試部位(PART NAME) NO.2	:	棕色塑膠粒 (BROWN PLASTIC PELLETS)
測試部位(PART NAME) NO.3	:	紅色塑膠粒 (RED PLASTIC PELLETS)
測試部位(PART NAME) NO.4	:	橘色塑膠粒 (ORANGE PLASTIC PELLETS)
測試部位(PART NAME) NO.5	:	黃色塑膠粒 (YELLOW PLASTIC PELLETS)
測試部位(PART NAME) NO.6	:	綠色塑膠粒 (GREEN PLASTIC PELLETS)
測試部位(PART NAME) NO.7	:	藍色塑膠粒 (BLUE PLASTIC PELLETS)
測試部位(PART NAME) NO.8	:	紫色塑膠粒 (PURPLE PLASTIC PELLETS)
測試部位(PART NAME) NO.9	:	灰色塑膠粒 (GRAY PLASTIC PELLETS)
測試部位(PART NAME)	:	白色塑膠粒 (WHITE 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)		
				NO.1	NO.2	NO.3
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.	n.d.	n.d.
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.	n.d.	n.d.
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.	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用UV-VIS檢測。 / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	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	NO.2	NO.3
磷 / Phosphorus (P)	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磷含量。 / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.	18
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, 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.	n.d.	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(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.	n.d.	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	NO.2	NO.3
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.	n.d.	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.	n.d.	n.d.
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.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	5	n.d.	n.d.	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	NO.2	NO.3
多溴聯苯醚總和 / Sum of PBDEs	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.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	5	n.d.	n.d.	n.d.		

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.4	NO.5	NO.6
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.	n.d.	n.d.
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.	n.d.	n.d.
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.	n.d.	n.d.

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				NO.4	NO.5	NO.6
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.
磷 / Phosphorus (P)	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磷 含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.	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, 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.	n.d.	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.	---	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.	n.d.	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.4	NO.5	NO.6
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.	n.d.	n.d.
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.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.	n.d.	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	5	n.d.	n.d.	n.d.		
十溴聯苯醚 / Decabromodiphenyl ether	5	n.d.	n.d.	n.d.		

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測試報告 Test Report

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萬泰科技股份有限公司
WONDERFUL HI-TECH CO., LTD.
桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



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.7	NO.8	NO.9
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.	n.d.	n.d.
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.	n.d.	n.d.
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.	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用UV-VIS檢測。 / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.
磷 / Phosphorus (P)	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磷含量。 / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	n.d.	---	14
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, 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.	n.d.	n.d.

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萬泰科技股份有限公司
WONDERFUL HI-TECH CO., LTD.
桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



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.7	NO.8	NO.9
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.	n.d.	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.	n.d.	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.	n.d.	n.d.
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.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	5	n.d.	n.d.	n.d.		

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



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. 7	NO. 8	NO. 9
多溴聯苯醚總和 / Sum of PBDEs	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.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	5	n.d.	n.d.	n.d.		

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. 10
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.
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.
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.

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測試報告

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



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.10
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
磷 / Phosphorus (P)	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磷 含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	12
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, 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.
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.

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAoyUAN TAIWAN, R. O. C.



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.10
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.
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.		

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萬泰科技股份有限公司

WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN TAIWAN, R. O. C.



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. ***: 該物質是由"三丁基錫", "三苯基錫"或各別元素(例如: 銻、鉍、矽、鋅、鈷或磷)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: 銻、鉍、矽、鋅、鈷或磷)之評估。
(The substance is calculated by the test results of Tributyl Tin, Triphenyl Tin or element (Ex. Antimony, Beryllium, Silicon, Zinc, Cobalt or Phosphorus respectively).
The MDL is evaluated for Tributyl Tin, Triphenyl Tin or element (Ex. Antimony, Beryllium, Silicon, Zinc, Cobalt or Phosphorus respectively).)

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

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(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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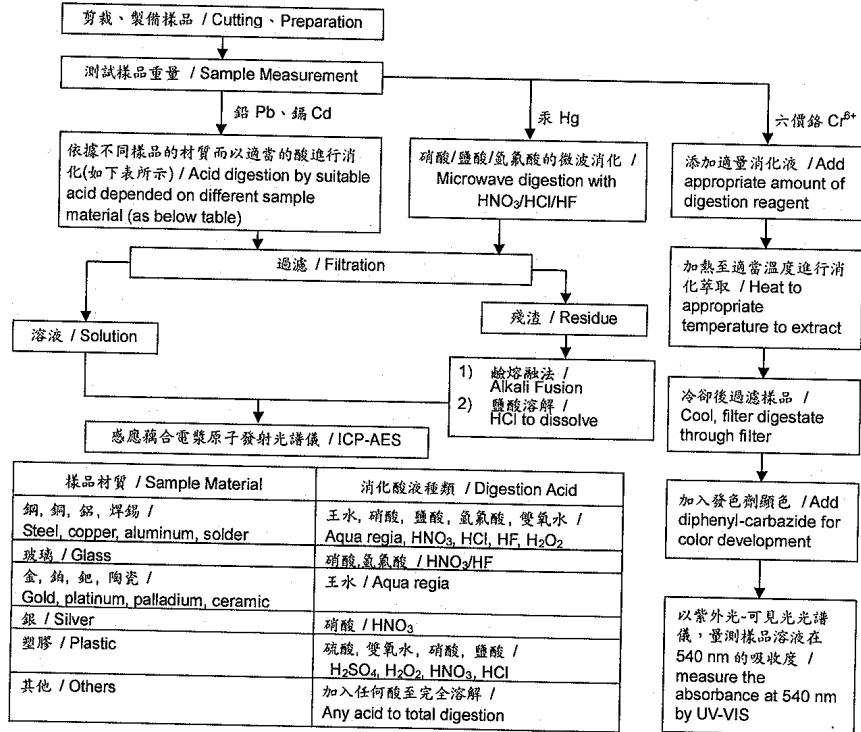
測試報告 Test Report

號碼(No.): CE/2009/11501C 日期(Date): 2009/01/15 頁數(Page): 14 of 21

萬泰科技股份有限公司
WONDERFUL HI-TECH CO., LTD.
桃園縣中壢市工業區北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND., PARK, TAOYUAN 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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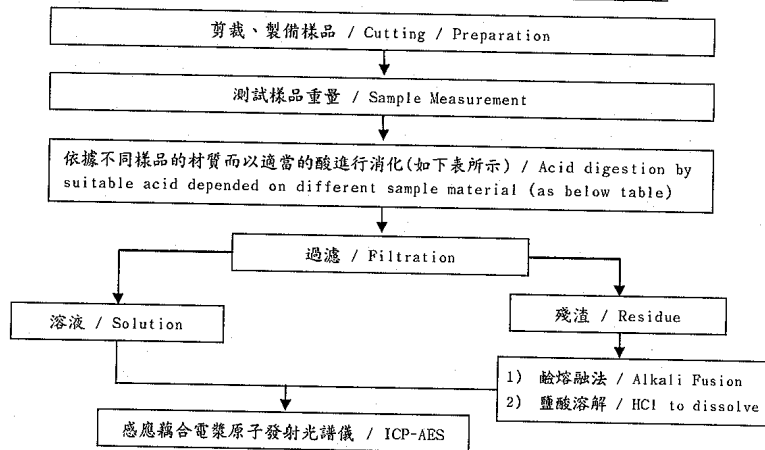
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: 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, 鈱, 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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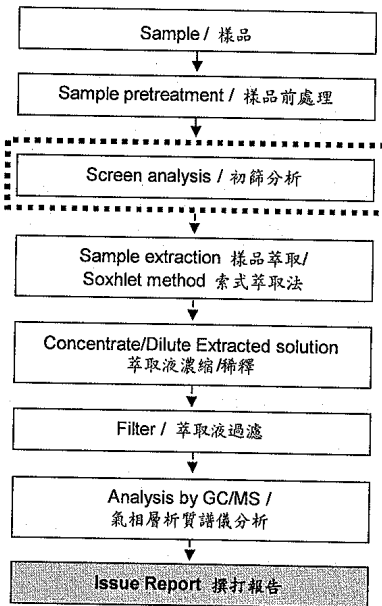
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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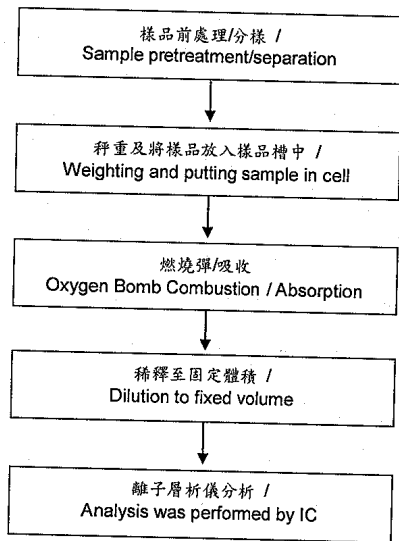
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鹵素分析流程圖 / Analytical flow chart of halogen content

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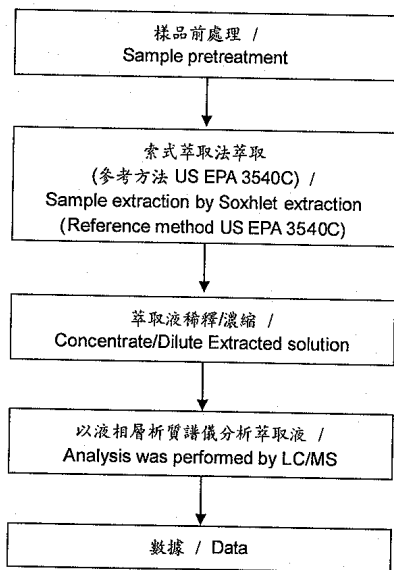
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全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

- 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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Test Report

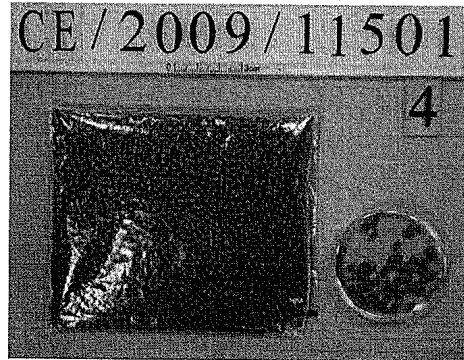
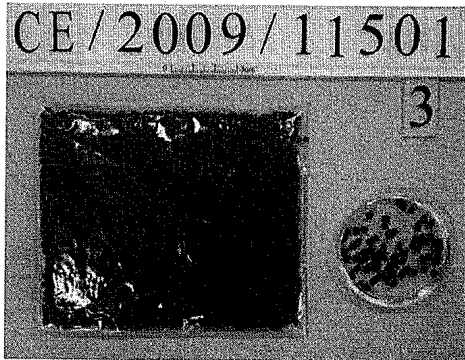
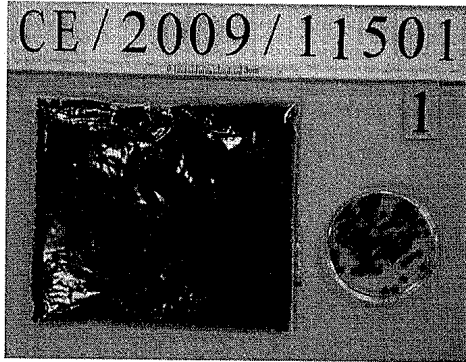
號碼(No.) : CE/2009/11501C 日期(Date) : 2009/01/15 頁數(Page) : 19 of 21

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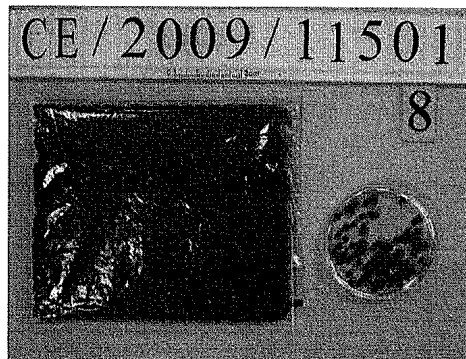
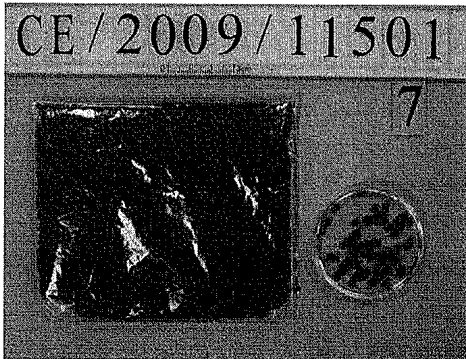
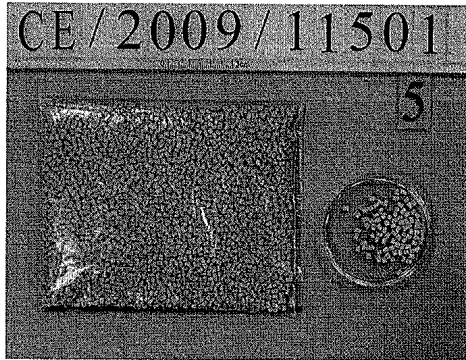
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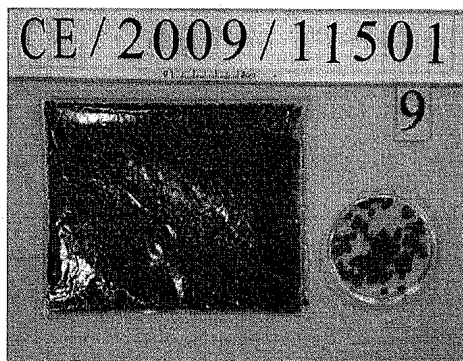
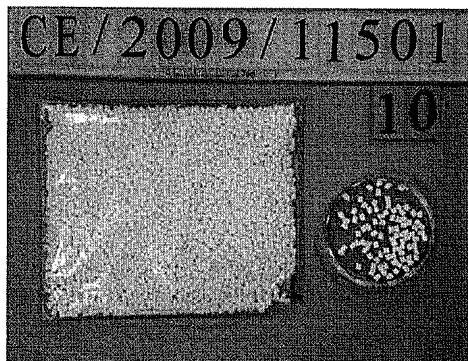
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** 報告結尾(End of Report) **

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測試報告 Test Report

號碼(No.) : CE/2008/72983 日期(Date) : 2008/07/15 頁數(Page) : 1 of 16

南亞塑膠工業股份有限公司
NAN YA PLASTICS CORPORATION
台灣台北市敦化北路201號
201 TUNG HWA NORTH ROAD, 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) : COPPER CLAD LAMINATES
樣品型號(Style/Item No.) : UV BLOCK FR-4-86/NP-140TL/NP-140B
買主/訂單號碼(Buyer/Order No.) : 8706254u
收件日期(Sample Receiving Date) : 2008/07/09
測試期間(Testing Period) : 2008/07/09 TO 2008/07/15

=====
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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NAN YA PLASTICS CORPORATION
台灣台北市敦化北路201號
201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



測試結果(Test Results)

測試部位(PART NAME) NO.1 : 黃色基板 (YELLOW LAMINATES)

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.
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	n.d.
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.
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.
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.

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台灣台北市敦化北路201號
201 TUNG HWA NORTH ROAD, 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)
				NO.1
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(GC/MS)檢測。 / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	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(GC/MS)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(GC/MS)檢測。 / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
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.
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
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.
2-(3', 5'-二叔丁基-2'-羥基苯基)苯并三氮唑 / 2-(3,5-di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole (CAS No.: 3846-71-7)	mg/kg	參考US EPA 3540方法, 以高效液相層析儀檢測之。 / With reference to US EPA 3540 method. Analysis was performed by HPLC.	5	n.d.
全氟辛酸 / PFOS	mg/kg	參考US EPA 3540C : 1996方法, 以液相層析質譜儀檢測全氟辛酸含量。 / With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.

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南亞塑膠工業股份有限公司
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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)
				NO.1
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.	10	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.	---	---
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	515
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	561
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	93000
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.

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南亞塑膠工業股份有限公司
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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)
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.	-	NO.1 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.		
石棉 / Asbestos	---	---	---	---
棕石棉 / Amosite (CAS No.: 012172-73-5)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
白石棉 / Chrysotile (CAS No.: 012001-29-5)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
青石棉 / Crocidolite (CAS No.: 012001-28-4)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative

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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
斜方角閃石 / Anthophyllite (CAS No.: 017068-78-9)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
透閃石 / Tremolite (CAS No.: 014567-73-8)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
陽起石 / Actinolite (CAS No.: 013768-00-8)	%	參考NIOSH 9000 / X光繞射定性分析法 (XRD) / As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
有機錫 / Organic-tin compounds	---	---	---	---
三苯基錫 / Triphenyl Tin (TphT) (CAS No.: 000668-34-8)	mg/kg	本測試參考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.
三丁基錫 / Tributyl Tin (TBT) (CAS No.: 000688-73-3)	mg/kg	本測試參考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.
偶氮 (AZO)	---	---	---	---
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 000092-67-1)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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-0-TOLUIDINE (CAS No.: 000095-69-2)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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
4): 2-蔡胺 / 2-NAPHTHYLAMINE (CAS No.: 000091-59-8)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
8): 4-甲氧基-間苯二胺 / 2,4-DIAMINOANISOLE (CAS No.: 000615-05-4)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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
12): 3,3'-二甲基聯苯胺 / 3,3'-DIMETHYLBENZIDINE (CAS No.: 000119-93-7)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
16): 4,4'-氯化雙苯胺 / 4,4'-OXYDIANILINE (CAS No.: 000101-80-4)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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-TOLUYLENEDIAMINE (CAS No.: 000095-80-7)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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
20): 2,4,5-三甲基苯胺 / 2,4,5-TRIMETHYLANILINE (CAS No.: 000137-17-7)	mg/kg	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)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	本測試參考LMBG 82.02-2方法, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
可塑劑定量分析 / Phthalates				
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 000084-75-3)	%	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.
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.

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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
 NAN YA PLASTICS CORPORATION
 台灣台北市敦化北路201號
 201 TUNG HWA NORTH ROAD, 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)
				NO.1
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.
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.
不完全鹵化氯烷烴化合物 / HFC	---	---	---	---
HFC-23 (CHF 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.
HFC-32 (CHF 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.
HFC-41 (CH ₃ F)	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.
HFC-43-10mee (C ₅ H ₂ F ₁₀)	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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南亞塑膠工業股份有限公司
NAN YA PLASTICS CORPORATION
台灣台北市敦化北路201號
201 TUNG HWA NORTH ROAD, 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)
				NO.1
HFC-125 (C2HF5)	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.
HFC-134 (C2H2F4)	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.
HFC-134a (CH2FCF3)	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.
HFC-143 (CH3F3)	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.
HFC-143a (CH3F3)	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.
HFC-152a (C2H4F2)	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.
HFC-227ea (C3HF7)	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.
HFC-236fa (C3H2F6)	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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南亞塑膠工業股份有限公司
NAN YA PLASTICS CORPORATION
台灣台北市敦化北路201號
201 TUNG HWA NORTH ROAD, 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)
				NO.1
HFC-236ea (C3H2F6)	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.
HFC-245ca (C3H3F5)	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.
HFC-245fa (C3H3F5)	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.
HFC-365mfc (C4H5F5)	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.
全氟化碳 / Perfluorocarbon (PFC)	---	---	---	---
F14 (CAS No.: 000075-73-0)	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.
Fluorocarbon 116 (CAS No.: 000076-16-4)	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.
Freon 218 (CAS No.: 000076-19-7)	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.
Decafluorobutane (CAS No.: 000355-25-9)	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.

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南亞塑膠工業股份有限公司
NAN YA PLASTICS CORPORATION
台灣台北市敦化北路201號
201 TUNG HWA NORTH ROAD, 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)
				NO.1
Freon C318 (CAS No.: 000115-25-3)	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.
Perfluor-1-butane (CAS No.: 000357-26-6)	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.
perfluorisobutane (CAS No.: 000382-21-8)	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.
1,4-dihydroctafluorobutane (CAS No.: 000377-36-6)	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.
nonafluor-2- (trifluorpmethyl)butane (CAS No.: 000594-91-2)	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.
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(GC/MS)檢測。 / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
2-perfluoromethylpentane (CAS No.: 000355-04-4)	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.
perfluorohexane (CAS No.: 000355-42-0)	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.

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NAN YA PLASTICS CORPORATION
台灣台北市敦化北路201號
201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



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. "----" = 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. Negative = 陰性 (< 1.0 %), Positive = 陽性 (> 1.0 %)
9. 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)

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南亞塑膠工業股份有限公司
NAN YA PLASTICS CORPORATION
台灣台北市敦化北路201號
201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

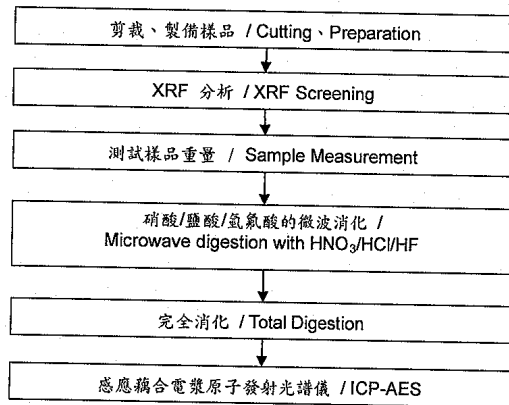


依據 SONY QAR-05-002 的要求: / Per requirements of SONY QAR-05-002:

- 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

塑料的消化流程圖 - 鉛、鎘的測試方式為 EPA 3052 (無殘渣) /

Flow Chart of Digestion for Plastic -EPA 3052 for Pb、Cd (without residue)

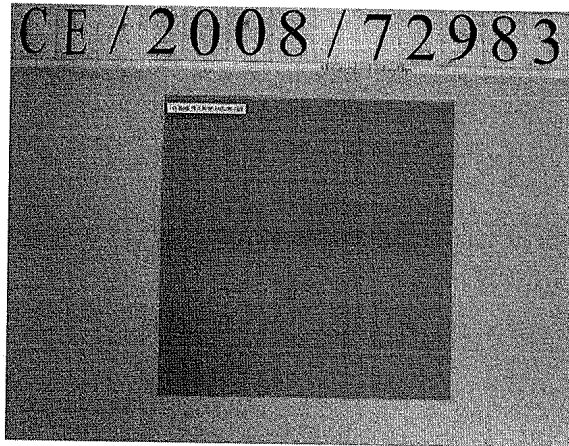


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NAN YA PLASTICS CORPORATION
台灣台北市敦化北路201號
201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN



** 報告結尾 **

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3M TAIWAN LTD.
66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN,
TAIWAN, R. O. C.



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

Sample Description : 3M DOUBLE COATED TISSUE TAPE
Style/Item No. : 9888T, 9810T
Sample Receiving Date : 2009/04/13
Testing Period : 2009/04/13 TO 2009/04/16

=====
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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3M TAIWAN LTD.
66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN,
TAIWAN, R. O. C.



Test Result(s)

PART NAME NO.1 : TRANSPARENT DOUBLE ADHESIVE TAPE
(EXCLUDING THE RELEASE PAPER)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 - Clause 8 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 - Clause 8 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 - Clause 7 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 - Annex C and performed by UV-VIS.	2	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.
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.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
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.
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	mg/kg	With reference to IEC 62321: 2008 - Annex A and performed by GC/MS.	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.

- Note : 1. mg/kg = ppm ; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. " - " = Not Regulated

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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 $1\mu\text{g}/\text{m}^2$ of the coated material.

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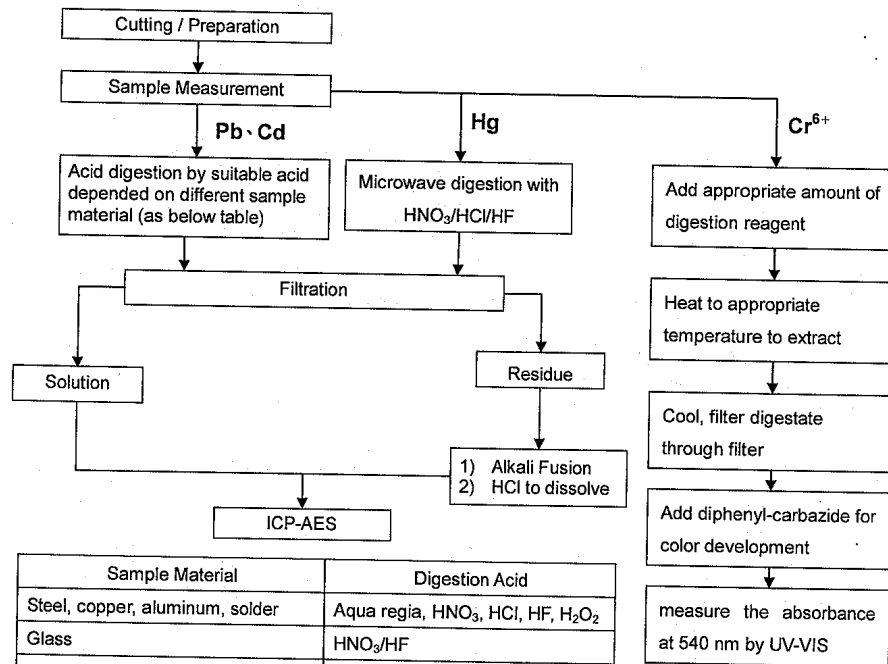
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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

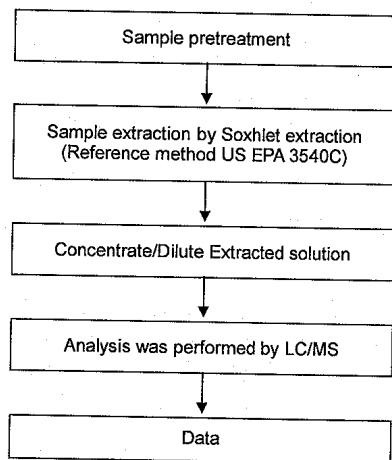
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Analytical flow chart of PFOA/PFOS content

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

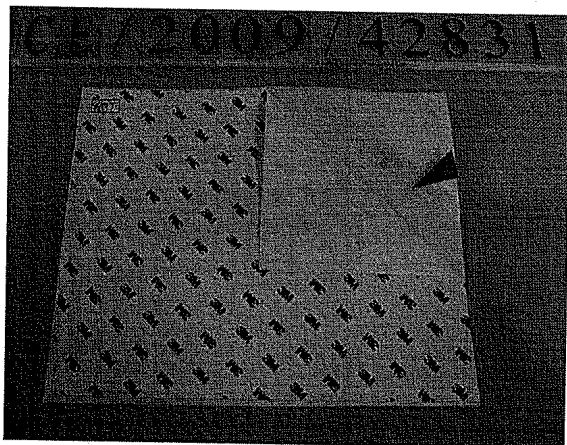


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** End of Report **

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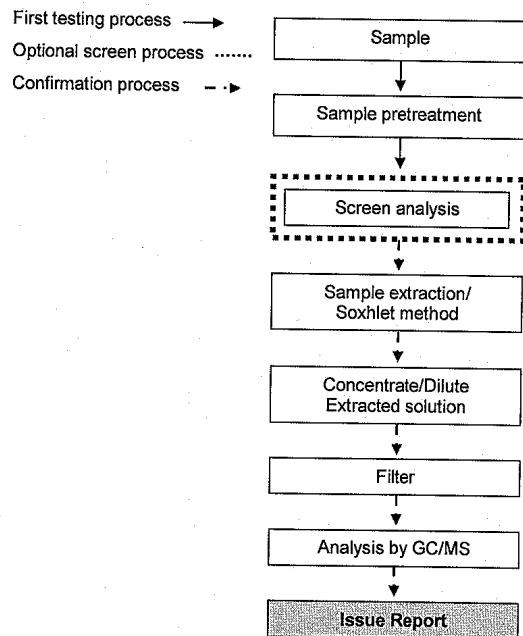
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PBB/PBDE analytical FLOW CHART

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



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