
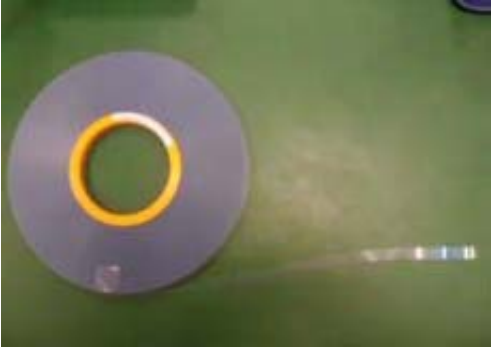






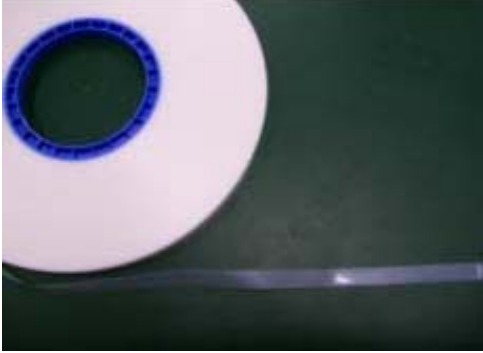
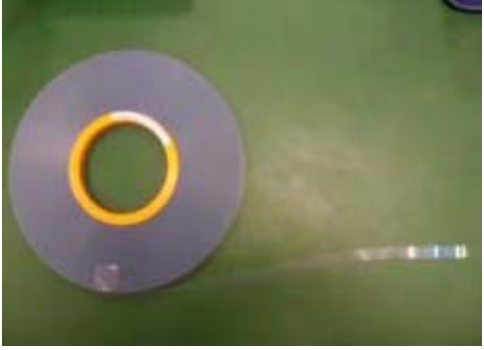


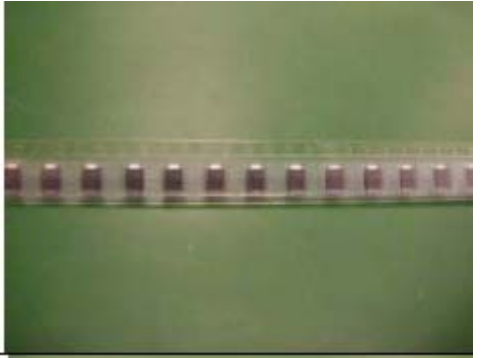

Product/Process Change Notification

PCN#	Effective Date	Issue Date
2013-09-03C-01	D/C 373	2013/9/3
PCN Classification	Product Category	
Minor	SMA. SMB Package	
Subject		
Anti-Static package implementation		
Affected Product(s)		
ES13A. ES23B.		
Description of Change(s)		
In order to enhance the strength of the top cover tape and further protect product from electrostatic		
Content of Change(s)		
PE package to Anti-Static package		
Impact(s)		
N/A		
Attachment(s)		
SGS Report . Package Information.		

Approval		
Issue by	Alice Lai	e-mail: alice@secosgmbh.com
Development Engineer		Alice Lai
QA Manager		Peter Yang
General Manger		Mathew Liu

For more information, please contact us directly or visit our website <http://www.secosgmbh.com>

SMA Exterior comparison Chart	
Original package (PE Package)	Modified package (Anti-Static package)
	
	
	

SMB Exterior comparison Chart	
Original package (PE Package)	Modified package (Anti-Static package)
	
	
	

量測標準

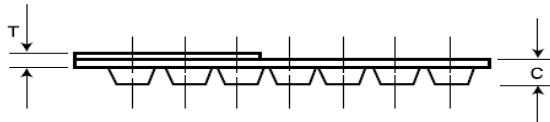
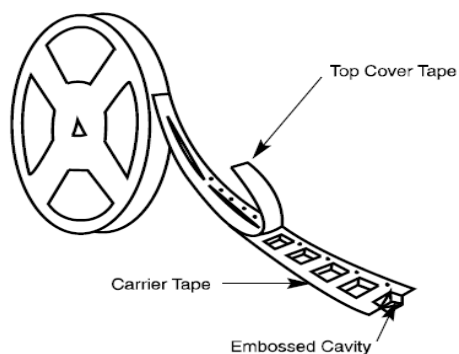
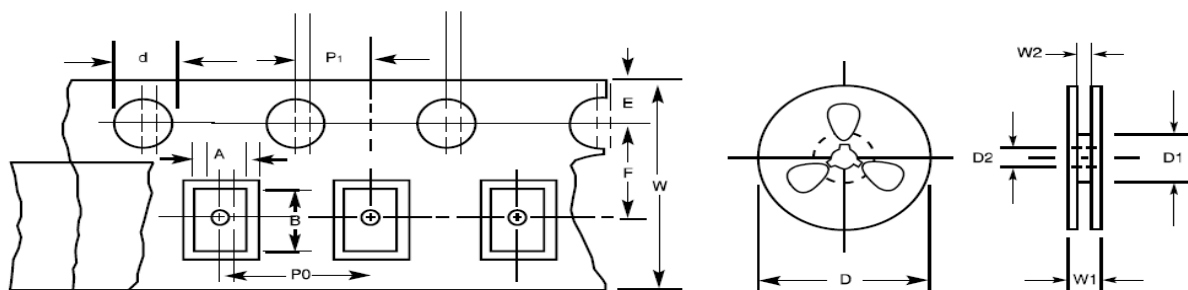
防靜電		
產品名稱	拉力範圍	拉力平均值差
SMA	15~45g(單邊)	≤10g
SMB	15~50g(單邊)	≤10g

測試結果

產品	防靜電載帶 單邊拉力 15~45g						
	鏈孔側			非鏈孔側			
	最小值	最大值	Mean平均值	最小值	最大值	Mean平均值	平均值差
SMA	16	35	25.5	17	30	23.5	-2
	19	31	25	19	23	21	-4
	22	34	28	25	31	28	0
	23	37	30	21	30	25.5	-4.5
	30	40	35	30	42	36	1

產品	防靜電載帶 單邊拉力 15~50g						
	鏈孔側			非鏈孔側			
	最小值	最大值	Mean平均值	最小值	最大值	Mean平均值	平均值差
SMB	20	25	22.5	26	33	29.5	7
	29	41	35	26	30	28	-7
	20	33	26.5	23	35	29	2.5
	25	34	29.5	33	42	37.5	8
	17	28	22.5	21	29	25	2.5

SMA/SMB/SMC



Unit: mm

Item	Symbol	SMA	SMB	SMC
Carrier width	A	2.9 (max)	4.0 (max)	6.3 (max)
Carrier length	B	5.9 (max)	5.9 (max)	8.6 (max)
Carrier depth	C	2.66 (max)	3.0 (max)	2.9 (max)
Sprocket hole	D	1.50±0.1 DIA	1.50±0.1 DIA	1.50±0.1 DIA
Reel outer diameter	D	178±2.0 / 330±2	178±2.0 / 330±2	178±2.0 / 330±2
Reel inner diameter	D1	50 (min)	50 (min)	50 (min)
Feed hole position	D2	3.5±1	3.5±1	3.5±1
Sprocket hole position	E	1.75±0.1	1.75±0.1	1.75±0.1
Punch hole position	F	5.5±0.05	5.5±0.05	7.5±0.1
Sprocket hole pitch	P	4.0±0.1	8.0±0.1	8.0±0.1
Sprocket hole pitch	P0	4.0±0.1	4.0±0.1	4.0±0.1
Embossment center	P1	2.0±0.05	2.0±0.05	2.0±0.05
Overall tape thickness	T	0.6 (max)	0.6 (max)	0.6 (max)
Tape width	W	12.0±0.3	12.0±0.3	12.0±0.3
Reel width	W1	18.4 (max)	18.4 (max)	18.4 (max)
Reel width	W2	14.4 (max)	14.4 (max)	14.4 (max)

測試報告

Test Report

號碼(No.) : CE/2012/A4447 日期(Date) : 2012/10/30 頁數(Page) : 1 of 9

鼎聯科技股份有限公司 / SPLENDOR TECHNOLOGY CO., LTD.

(睿隼電子(上海)有限公司)

苗栗縣竹南鎮大埔里公義路861之1號 / NO. 861-1, GONGYI RD., CHUNAN, MIAOLI 350, TAIWAN (R. O. C.)

(上海市嘉定區嘉戩公路周趙路655-1號)



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

樣品名稱(Sample Description) : 熱封上帶
樣品型號(Style/Item No.) : A02XX-XXX
收件日期(Sample Receiving Date) : 2012/10/23
測試期間(Testing Period) : 2012/10/23 TO 2012/10/30

測試需求(Test Requested) : (1) 依據客戶要求，參考RoHS 2011/65/EU Annex II 指令進行鎘，鉛，汞，六價鉻，多溴聯苯，多溴聯苯醚測試。(As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
(2) 依據客戶指定，進行全氟辛酸(銨)、全氟辛酸磺酸、鹵素-氟、氯、溴、碘測試。(As specified by client, to test PFOA, PFOS, Halogen-Fluorine, Chlorine, Bromine, Iodine contents in the submitted sample.)

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

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


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

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測試報告

Test Report

號碼(No.) : CE/2012/A4447 日期(Date) : 2012/10/30 頁數(Page) : 2 of 9

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苗栗縣竹南鎮大埔里公義路861之1號 / NO. 861-1, GONGYI RD., CHUNAN, MIAOLI 350, TAIWAN (R. O. C.)
(上海市嘉定區嘉戩公路周趙路655-1號)

測試結果(Test Results)

測試部位(PART NAME) No.1 : 透明塑膠 (TRANSPARENT PLASTIC)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法, 以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法, 以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.

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測試報告 Test Report

號碼(No.) : CE/2012/A4447 日期(Date) : 2012/10/30 頁數(Page) : 3 of 9

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(上海市嘉定區嘉戩公路周趙路655-1號)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No.1		
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/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.				
鹵素 / Halogen						
鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.		
鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	n.d.		
鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.		
鹵素(碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.		

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測試報告

Test Report

號碼(No.) : CE/2012/A4447

日期(Date) : 2012/10/30 頁數(Page) : 4 of 9

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(上海市嘉定區嘉戩公路周趙路655-1號)

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)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm), 在半成品、成品或零部件中不得超過0.1%(1000ppm), 在紡織品或塗層材料中不得超過 $1\mu\text{g}/\text{m}^2$ 。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu\text{g}/\text{m}^2$.)

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測試報告 Test Report

號碼(No.) : CE/2012/A4447

日期(Date) : 2012/10/30 頁數(Page) : 5 of 9

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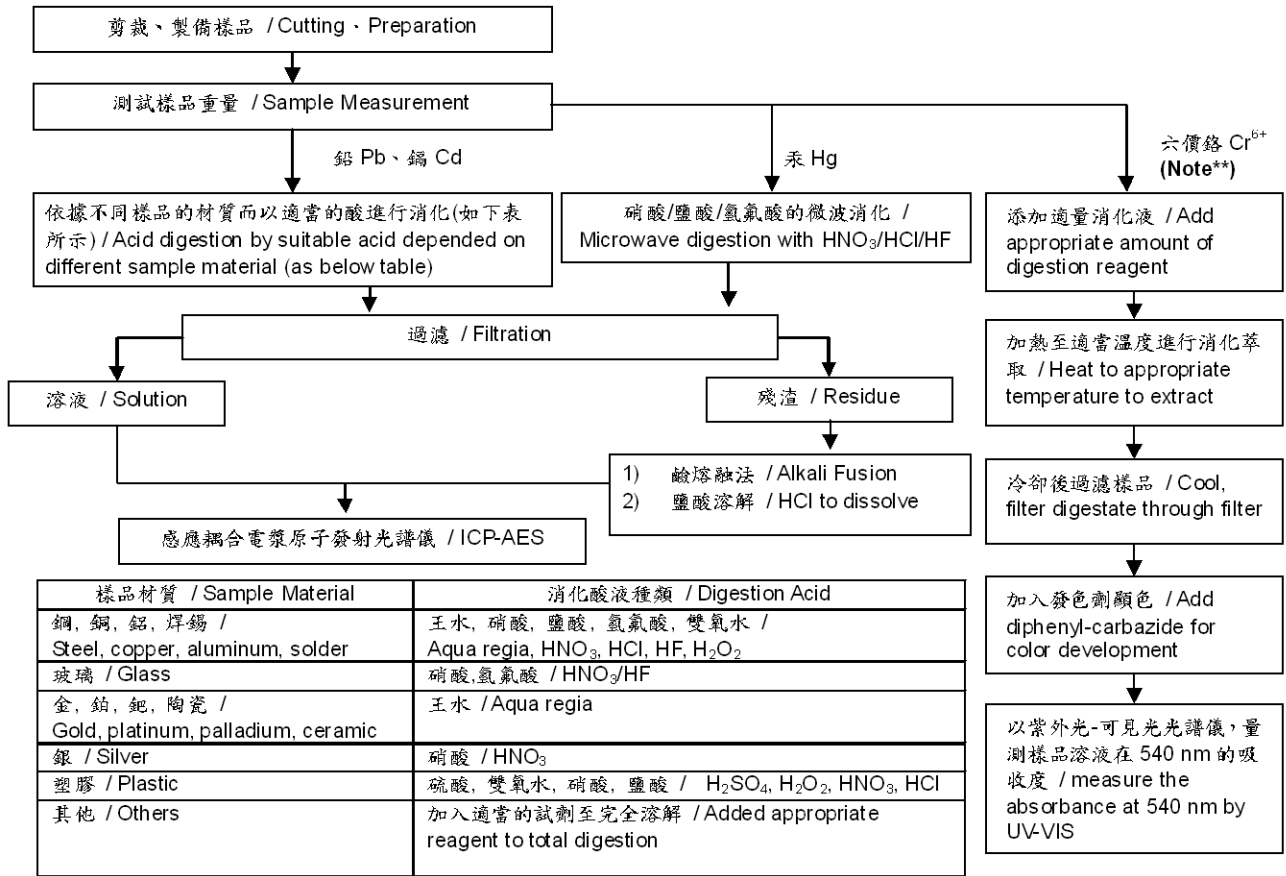
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(上海市嘉定區嘉戩公路周趙路655-1號)



- 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



Note:** (1) 針對非金屬材料加入鹼性消化液, 加熱至 90~95°C 萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.

(2) 針對金屬材料加入純水, 加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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測試報告 Test Report

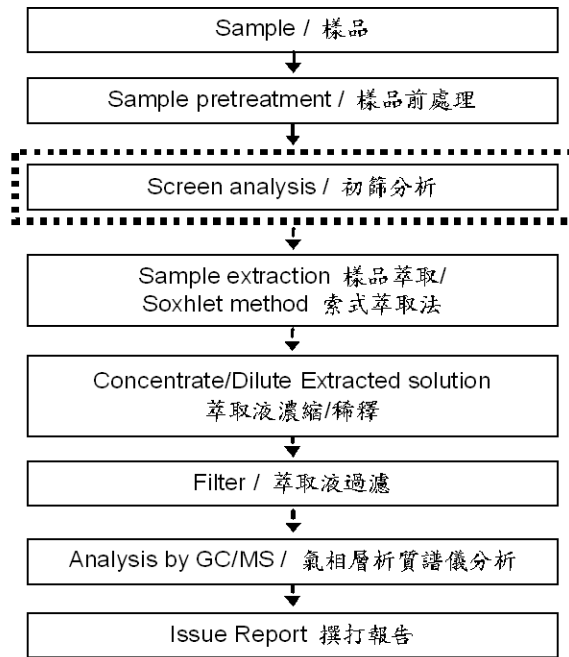
號碼(No.) : CE/2012/A4447 日期(Date) : 2012/10/30 頁數(Page) : 6 of 9

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

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
 - 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang
- 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/2012/A4447 日期(Date) : 2012/10/30 頁數(Page) : 7 of 9

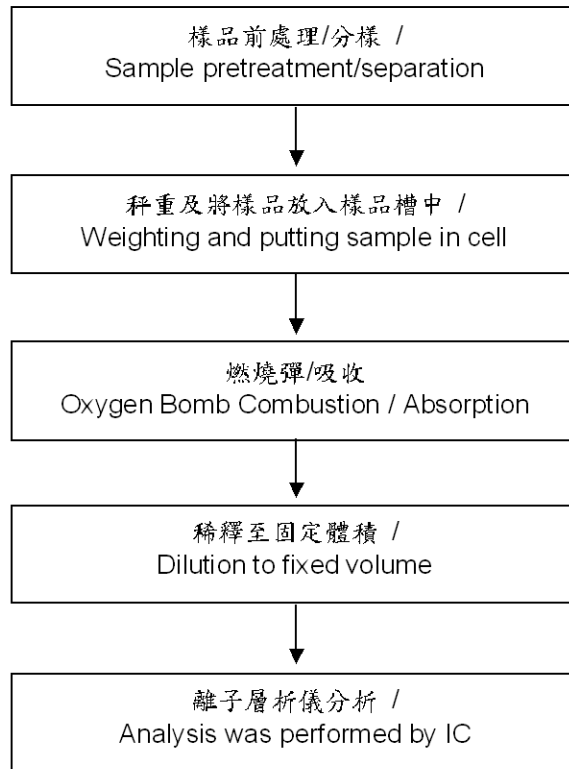
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(上海市嘉定區嘉戩公路周趙路655-1號)

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

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



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測試報告 Test Report

號碼(No.) : CE/2012/A4447 日期(Date) : 2012/10/30 頁數(Page) : 8 of 9

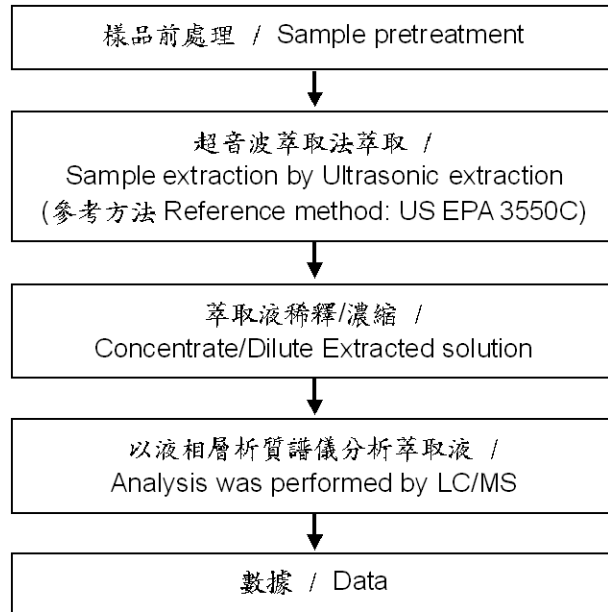
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(上海市嘉定區嘉戩公路周趙路655-1號)

全氟辛酸(銨)/全氟辛酸磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告 Test Report

號碼(No.) : CE/2012/A4447 日期(Date) : 2012/10/30 頁數(Page) : 9 of 9

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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2012/A4447



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測試報告

Test Report

號碼(No.) : CE/2013/41446

日期(Date) : 2013/04/16

頁數(Page) : 1 of 9

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(上海市嘉定區嘉戩公路周趙路655-1號)



以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description)	:	黑色導電PC載帶
樣品型號(Style/Item No.)	:	P11-XXXXXX
同材質產品(Sample description of the same material)	:	黑色導電PC粒子、黑色導電PC皮料
同材質產品型號(Sample description Item No. of the same material)	:	M11、R11XXXXX-XX
收件日期(Sample Receiving Date)	:	2013/04/09
測試期間(Testing Period)	:	2013/04/09 TO 2013/04/16

測試需求(Test Requested) :

- (1) 依據客户要求, 參考RoHS 2011/65/EU Annex II 指令進行鎘, 鉛, 汞, 六價鉻, 多溴聯苯, 多溴聯苯醚測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
- (2) 依據客戶指定, 進行全氟辛酸(銨)、全氟辛酸磺酸、鹵素-氟、氯、溴、碘測試. (As specified by client, to test PFOA, PFOS, Halogen-Fluorine, Chlorine, Bromine, Iodine contents in the submitted sample.)

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

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



Edison
SGS
Edison Chang / Sr. Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

測試報告

Test Report

號碼(No.) : CE/2013/41446

日期(Date) : 2013/04/16

頁數(Page) : 2 of 9

鼎聯科技股份有限公司 / SPLENDOR TECHNOLOGY CO., LTD.

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測試結果(Test Results)

測試部位(PART NAME) No.1 : 黑色塑膠 (BLACK PLASTIC) (P11-XXXXXX)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法, 以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法, 以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.

測試報告

Test Report

號碼(No.) : CE/2013/41446

日期(Date) : 2013/04/16

頁數(Page) : 3 of 9

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No.1		
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/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.		
鹵素 / Halogen						
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.		
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	n.d.		
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.		
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.		

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測試報告 Test Report

號碼(No.) : CE/2013/41446

日期(Date) : 2013/04/16

頁數(Page) : 4 of 9

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TAIWAN (R. O. C.)
(上海市嘉定區嘉戩公路周趙路655-1號)

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)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm), 在半成品、成品或零部件中不得超過0.1%(1000ppm), 在紡織品或塗層材料中不得超過1 μ g/m²。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1 μ g/m².)

測試報告 Test Report

號碼(No.) : CE/2013/41446

日期(Date) : 2013/04/16

頁數(Page) : 5 of 9

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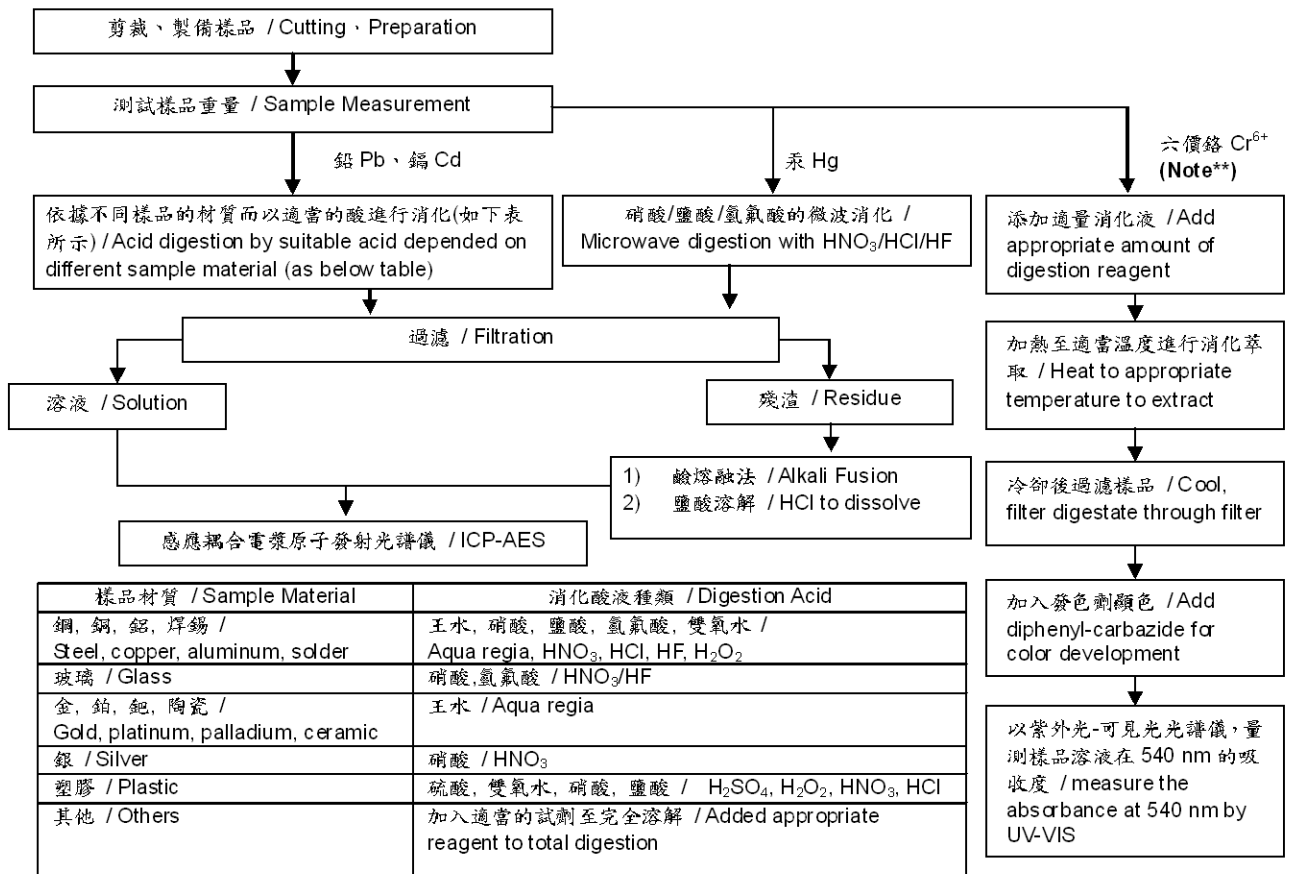
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張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



Note:** (1) 針對非金屬材料加入鹼性消化液, 加熱至 90~95°C 萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.

(2) 針對金屬材料加入純水, 加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

測試報告 Test Report

號碼(No.) : CE/2013/41446

日期(Date) : 2013/04/16

頁數(Page) : 6 of 9

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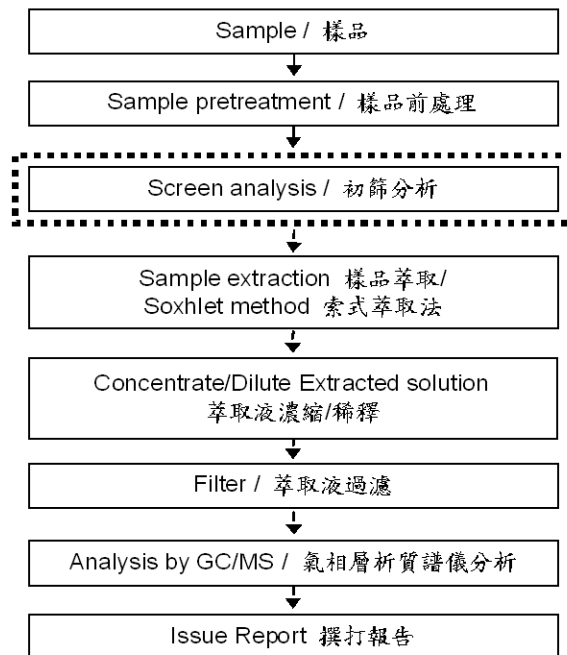
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

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/2013/41446

日期(Date) : 2013/04/16

頁數(Page) : 7 of 9

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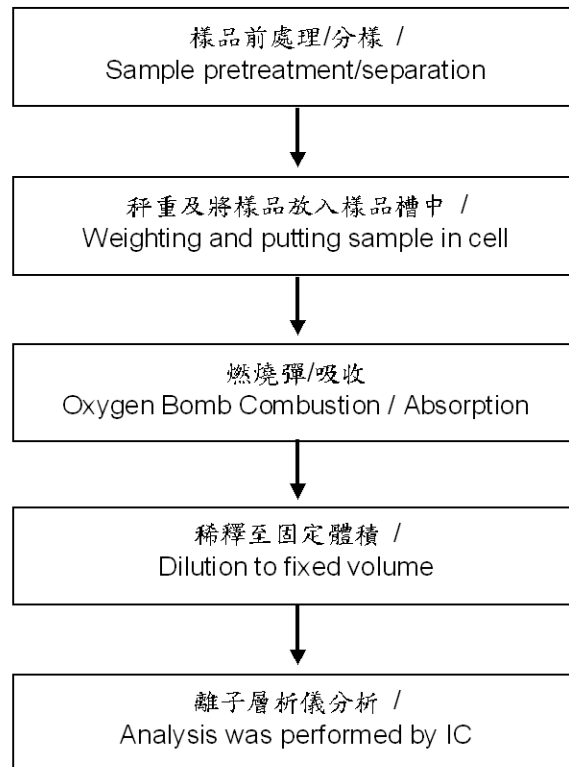
TAIWAN (R. O. C.)

(上海市嘉定區嘉戩公路周趙路655-1號)



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

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



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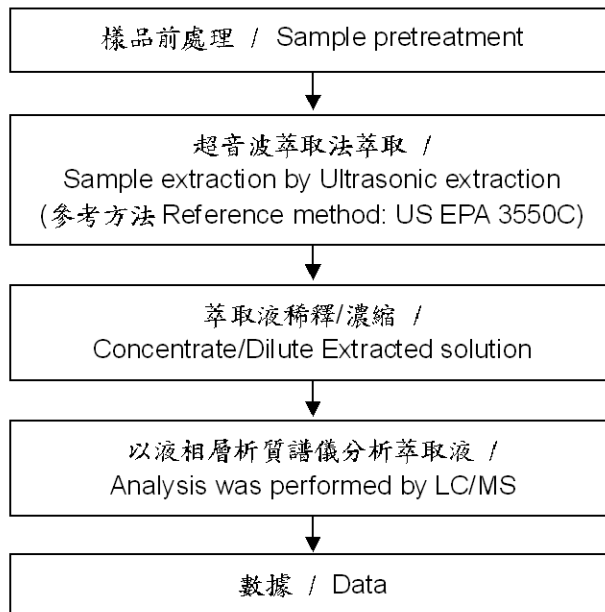
號碼(No.) : CE/2013/41446 日期(Date) : 2013/04/16 頁數(Page) : 8 of 9

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

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



測試報告 Test Report

號碼(No.) : CE/2013/41446

日期(Date) : 2013/04/16

頁數(Page) : 9 of 9

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(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2013/41446



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