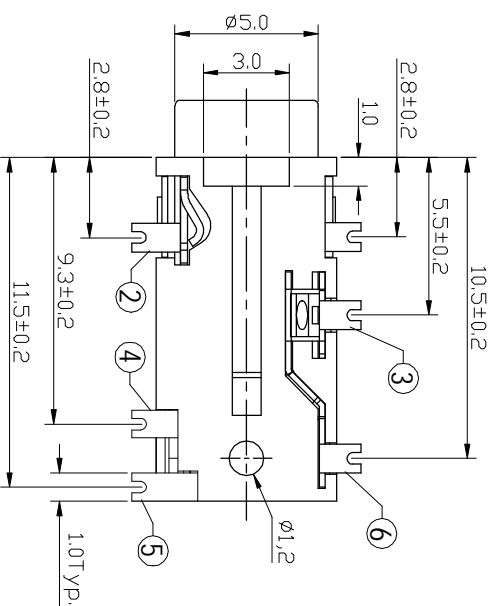


P.C.B LAYOUT
TOP VIEW

TOLERANCE:
 0. 0--<10. 0mm ±0. 10mm
 10. 0--<20. 0mm ±0. 15mm
 20. 0--<50. 0mm ±0. 20mm



7	HOUSING	1	PA9T	
6	6# CONTACT FOOT	1	BRONZE	Au-Plating
5	5# CONTACT FOOT	1	BRONZE	Au-Plating
4	4# CONTACT FOOT	1	BRONZE	Au-Plating
3	3# CONTACT FOOT	1	BRONZE	Au-Plating
2	2# CONTACT FOOT	1	BRONZE	Au-Plating
1	1# CONTACT FOOT	1	BRONZE	Au-Plating
NO.	DESCRIPTION	QTY	MATERIAL	PLATING



PHONE JACK



ST-PJ-312

PAPER NO: A4	PAGE 1 OF 1
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TOLERANCE	ANGLES	SCALE	VER
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± 0.15	$\pm 1.5^\circ$	4:1	0

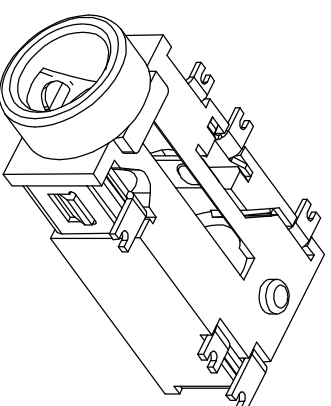
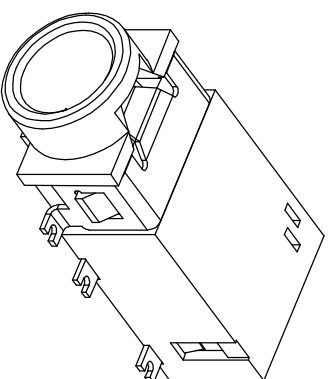
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DESIGNER BY:

CHECK BY:

APPROVED BY:

山旗电子(香港)实业有限公司

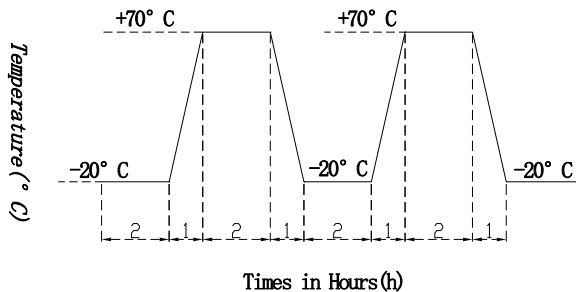


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規 格 書 SPECIFICATION

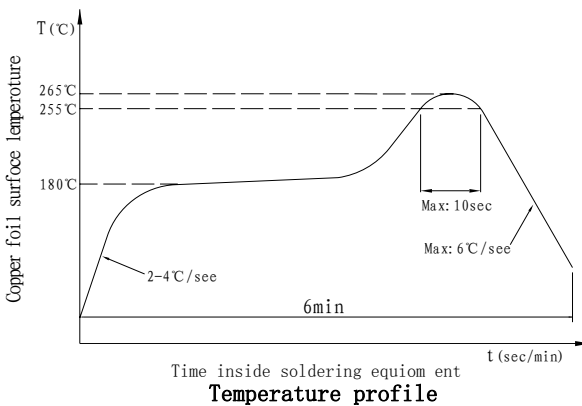
DESIGNATION			系列：PHONE JACK		
MODEL			型號：PJ-S3143		
1. RATING			額定值: DC 30V 0.5A		
2. CONSTRUCTION DIMENSION 結構尺寸：			Apply to the appended drawing：符合附加圖紙		
3.APPEARANCE 外 觀：			Have no remarkable damage ,crack and rust etc：無明顯損傷,裂紋,鏽迹等.		
4. TEST CONDITION 測試條件： Standard test conditions shall be 5 to 35℃ in temperature and 45 to 85%in humidity. 溫度 5~35℃, 濕度 45~85%標準狀態下測試.					
ITEM 專案		TEST CONDITION 測試條件		SPECIFICATION 規格	
5. ELECTRONICAL CHARACTERISTICS.電氣性能.					
5A	CONTACT RESISTANCE 接觸阻抗	Being measured at 1KHz small current contact resistance meter. 在 1KHZ 小電流下測量.		50mΩ max 50 毫歐以下.	
5B	INSULATION RESISTANCE 絕緣阻抗	Measurements shall be made following application of DC250V potential across terminals and across terminals and frame for 1 minute. 在端子之間和端子與殼之間加 DC 250V 條件下,持續 1 分鐘測量.		100MΩ min 100 兆歐以上.	
5C	WITHSTAND VOLTAGE 耐電壓	AC 250V (50Hz or 60Hz) shall be applied across terminals and across terminals and frame for one minute. 在端子之間和端子與殼之間加 AC 250V(50HZ 或 60HZ)條件下,持續 1 分鐘測量.		There shall be no breakdown. 無擊穿現象出現.	
6. MECHANICAL CHARACTERISTICS.機械性能.					
6A	INSERTION AND WITHDRAW FORCE 插拔力	Being measure at across spring piece and across matching plug for ergometer 用測力計在插頭與彈片之間進行測量 .		Insertion and extraction force 3-20N 插拔力 3-20N	
6B	TERMINAL STRENGTH 端子強度	A static force of 500gf being applied in one direction on the tip of terminal for 1 minute. 一個 500 克力之靜負荷施加於端子頂部的一個方向持續 1 分鐘。		There shall be no sign of damage mechanically and electrically. 無任何迹象顯示機械及電氣性能之損壞.	
7. DURABILITY.耐久性.					
7A	SOLDERING TEST. 可焊性試驗	The tip of the terminals shall be dipped 2mm in the solder bath at a temperature of 260±5℃ for 3±0.5sec. 端子頂部被浸入焊錫池 2mm 深,溫度 260±5℃時間 3 ±0.5 秒。		A new uniform coating of solder shall cover a minimum of 75 of the surface being immersed. 浸入的部分 75%以上表面將被錫覆蓋.	

規 格 書 SPECIFICATION

ITEM 專案		TEST CONDITION 測試條件	SPECIFICATION 規格
7B	LIFE TEST. 壽命試驗	5,000 cycles of operation at a rate of 20-30 cycles per minute with unloading. 無負載條件下,每分鐘 20-30 次的速度操作 5,000 次。	(1). Contact resistance . 100m Ω max 接觸阻抗 100 毫歐以下. (2). Insertion and withdraw force 30 initial value 插拔力變化範圍初始值 30% (3). ITEM 專案-5B (4). ITEM 專案-5C (5). ITEM 專案-6B
7C	HEAT TEST. 耐熱試驗	85 \pm 2 $^{\circ}$ C for 48 hours after test keep in normal condition for 30 minutes. 在 85 \pm 2 $^{\circ}$ C 環境中放 48 小時,再放在正常環境中 30 分鐘後進行測試。	(1). Contact resistance 50m Ω max. 接觸電阻 50 毫歐以下 (2). Insulation resistance. 100M Ω min. 絕緣電阻 100 兆歐以上 (3). There shall be no sign of damage mechanically and electrically. 無任何迹象顯示機械及電器性能之損壞.
7D	HUMIDITY TEST. 耐濕試驗	The condition of temperature 40 \pm 2 $^{\circ}$ C and humidity 90-95% for 48 hrs. after test keep in normal condition for 30 min. 在溫度 40 \pm 2 $^{\circ}$ C , 濕度 90-95%環境中放 48 小時,再放在正常環境中 30 分鐘後進行測試。	
7E	COLD TEST. 耐冷試驗	At -40 \pm 2 $^{\circ}$ C for 48 hrs. after test keep in normal condition for 30 min. 在-40 \pm 2 $^{\circ}$ C 環境中放 48 小時,再置於正常環境中 30 分鐘後進行測試。	
7F	Temperature cycling test 溫度交變試驗	In FIG.For 5 cycles,test after keeping in normal condition for 30 min. 如圖示之環境中循環 5 次後,再置於正常環境中 30 分鐘後進行測試. 	

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規 格 書 SPECIFICATION

ITEM 專案	TEST CONDITION 測試條件	SPECIFICATION 規格
<p>7G Resistance to soldering heat test 耐焊性試驗</p>	<p>Reflow Soldering Conditions: Preheat: Temperature on the copper foil surface should reach 180 °C , 2 ± 0.3 minutes after the P.W.B entered into the soldering equipment. Soldering heat: Temperature on the copper foil surface should reach the peak temperature of 260 ± 5 °C with in 10 seconds after the P.W.B enter into soldering heat zone. 過回流焊條件: 預熱: 電鍍層表面的溫度應達到 180 °C , 2 ± 0.3 分鐘後電路板進入回流焊設備. 回流焊溫度: 電鍍層表面溫度最高為 260 ± 5 °C 且停留不超過 10 秒後電路板進入低溫焊接處.</p>  <p>Soldering iron method: Bit temperature 350 ± 10 °C , application time 1 ~ 5 sec. However excessive pressure shall not be applied to the terminal. 手工焊接的時候溫度需控制在 350 ± 10 °C , 時間為 1 ~ 5 秒, 不能在端子上施加異常壓力.</p>	<p>Without deformation of case or excessive looseness of terminals electrical characteristics shall be satisfied. 本體無變形, 能滿足於機械、電氣性能.</p>

8. Others

When the amendment of this specification comes into necessity, the amendment must be made by the mutual consultation and agreement between manufacturer and customer.

當規格書需要修正時, 需客戶同廠方共同確認.

DGN. 製錶人: 陳玉霞	CKD. 校 對: 陳廣陽	APPD. 審 核: 唐瓊華
DATE. 日 期: 2012-06-18	DATE. 日 期: 2012-06-18	DATE. 日 期: 2012-06-18

山旗电子(香港)实业有限公司

盐雾测试报告

NO.:110122001

物料名称	PJ-D3025C大弹片	测试数量	5pcs
客户名称		表面处理	镀锡
试验日期	2011. 01. 21	试验时间(h)	24H
试验开始时间	01月21日13: 30	试验完成时间	01月22日 13: 30
氯化钠溶液浓度	5%	饱和空气桶温度	47℃
压缩空气压力	1kgf/cm ²	物料底材	铜
喷雾量	1. 5ml	盐水PH值	6. 5
盐水桶温度	35℃	喷雾状况	连续喷雾
测试用水	蒸馏水	实际腐蚀面积	无
判定基准	JIS H8502 9.0級	判定方法	20倍放大镜观察
测试前外观	OK	测试后外观	OK

备注:



测试前



测试后

测试判定

☒ 合格

☐ 不合格

测试员: 杨姮

审核: 赵先斌

核准: 陈贵

日期: 2011. 01. 22

山 旗 电 子 (香 港) 实 业 有 限 公 司

盐雾测试报告

NO.:120619001

物料名称	PJ-S3143	测试数量	5PCS
客户名称		表面处理	镀金
试验日期	2012. 06. 19	试验时间(h)	24H
试验开始时间	06. 18 AM9: 00	试验完成时间	06. 19 AM9: 00
氯化钠溶液浓度	5%	饱和空气桶温度	47℃
压缩空气压力	1kgf/cm ²	物料底材	铜
喷雾量	1. 5ml	盐水PH值	6. 5
盐水桶温度	35℃	喷雾状况	连续喷雾
测试用水	蒸馏水	实际腐蚀面积	无
判定基准	JIS H8502 9.0級	判定方法	20倍放大镜观察
测试前外观	OK	测试后外观	OK
备注:			
测试判定	<input checked="" type="checkbox"/> 合格 <input type="checkbox"/> 不合格		
测试员: 杨姮 审核: 陈贵 核准: 陈贵 日期: 2012. 06. 19			

山旗电子(香港)实业有限公司

盐雾测试报告

NO.:110122003

物料名称	PJ-D3025C大弯片	测试数量	5pcs
客户名称		表面处理	镀锡
试验日期	2011. 01. 21	试验时间(h)	24H
试验开始时间	01月21日13: 30	试验完成时间	01月22日 13: 30
氯化钠溶液浓度	5%	饱和空气桶温度	47℃
压缩空气压力	1kgf/cm ²	物料底材	铜
喷雾量	1. 5ml	盐水PH值	6. 5
盐水桶温度	35℃	喷雾状况	连续喷雾
测试用水	蒸馏水	实际腐蚀面积	无
判定基准	JIS H8502 9.0級	判定方法	20倍放大镜观察
测试前外观	OK	测试后外观	OK

备注:



测试前



测试后

测试判定

☒ 合格 ☐ 不合格

测试员: 杨姮

审核: 赵先斌

核准: 陈贵

日期: 2011. 01. 22

山旗电子(香港)实业有限公司

盐雾测试报告

NO.:110122004

物料名称	PJ-D3025C小弯片	测试数量	5pcs
客户名称		表面处理	镀锡
试验日期	2011. 01. 21	试验时间(h)	24H
试验开始时间	01月21日13: 30	试验完成时间	01月22日 13: 30
氯化钠溶液浓度	5%	饱和空气桶温度	47℃
压缩空气压力	1kgf/cm ²	物料底材	铜
喷雾量	1. 5ml	盐水PH值	6. 5
盐水桶温度	35℃	喷雾状况	连续喷雾
测试用水	蒸馏水	实际腐蚀面积	无
判定基准	JIS H8502 9.0級	判定方法	20倍放大镜观察
测试前外观	OK	测试后外观	OK

备注:



测试前



测试后

测试判定

☒ 合格 ☐ 不合格

测试员: 杨姮

审核: 赵先斌

核准: 陈贵

日期: 2011. 01. 22

山 旗 电 子 (香 港) 实 业 有 限 公 司

盐雾测试报告

NO.:110122005

物料名称	PJ-D3025C平片	测试数量	5pcs
客户名称		表面处理	镀锡
试验日期	2011. 01. 21	试验时间(h)	24H
试验开始时间	01月21日13: 30	试验完成时间	01月22日 13: 30
氯化钠溶液浓度	5%	饱和空气桶温度	47℃
压缩空气压力	1kgf/cm ²	物料底材	铜
喷雾量	1. 5ml	盐水PH值	6. 5
盐水桶温度	35℃	喷雾状况	连续喷雾
测试用水	蒸馏水	实际腐蚀面积	无
判定基准	JIS H8502 9.0級	判定方法	20倍放大镜观察
测试前外观	OK	测试后外观	OK

备注:



测试前



测试后

测试判定

☒ 合格

☐ 不合格

测试员: 杨姮

审核: 赵先斌

核准: 陈贵

日期: 2011. 01. 22

山 旗 电 子 (香 港) 实 业 有 限 公 司

盐雾测试报告

NO.:110122006

物料名称	PJ-D3025C轴套	测试数量	5pcs
客户名称		表面处理	镀锡
试验日期	2011. 01. 21	试验时间(h)	24H
试验开始时间	01月21日13: 30	试验完成时间	01月22日 13: 30
氯化钠溶液浓度	5%	饱和空气桶温度	47℃
压缩空气压力	1kgf/cm ²	物料底材	铜
喷雾量	1. 5ml	盐水PH值	6. 5
盐水桶温度	35℃	喷雾状况	连续喷雾
测试用水	蒸馏水	实际腐蚀面积	无
判定基准	JIS H8502 9. 0級	判定方法	20倍放大镜观察
测试前外观	OK	测试后外观	OK

备注:



测试后

测试判定

☒ 合格 ☐ 不合格

测试员: 杨姮

审核: 赵先斌

核准: 陈贵

日期: 2011. 01. 22



Test Report

No. CANEC1203608909

Date: 09 Apr 2012

Page 1 of 6

The following sample(s) was/were submitted and identified on behalf of the clients as : C5210

SGS Job No. : CP12-014038 - SZ

Date of Sample Received : 30 Mar 2012

Testing Period : 30 Mar 2012 - 09 Apr 2012

Test Requested : Selected test(s) as requested by client.

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

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

Conclusion : A:Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.

Annie Liang
Approved Signatory

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Test Report

No. CANEC1203608909

Date: 09 Apr 2012

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN12-036089.002	Copper-colored metal sheet

Remarks :

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

A:RoHS Directive 2011/65/EU

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	14
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative

Notes :

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2)◇Spot-test:
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
◇Boiling-water-extraction:
Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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SGS Standard Technical Service Co., Ltd.
SGS TESTING SERVICES Chemical Laboratory

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Test Report

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Date: 09 Apr 2012

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B:PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method : With reference to US EPA Method 3550C: 2007, analysis was performed by HPLC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Perfluorooctane Sulfonates (PFOS) and related Acid,Metal Salt and Amide	mg/kg	10	ND
Perfluorooctanoic Acid (PFOA)	mg/kg	10	ND

Notes :

- (1) PFOS Reference Information: Entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2006/122/EC)
- (i) 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.
- (ii) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg /m² of the coated material.
- Please refer to Regulation (EC) No 552/2009 to get more detail information

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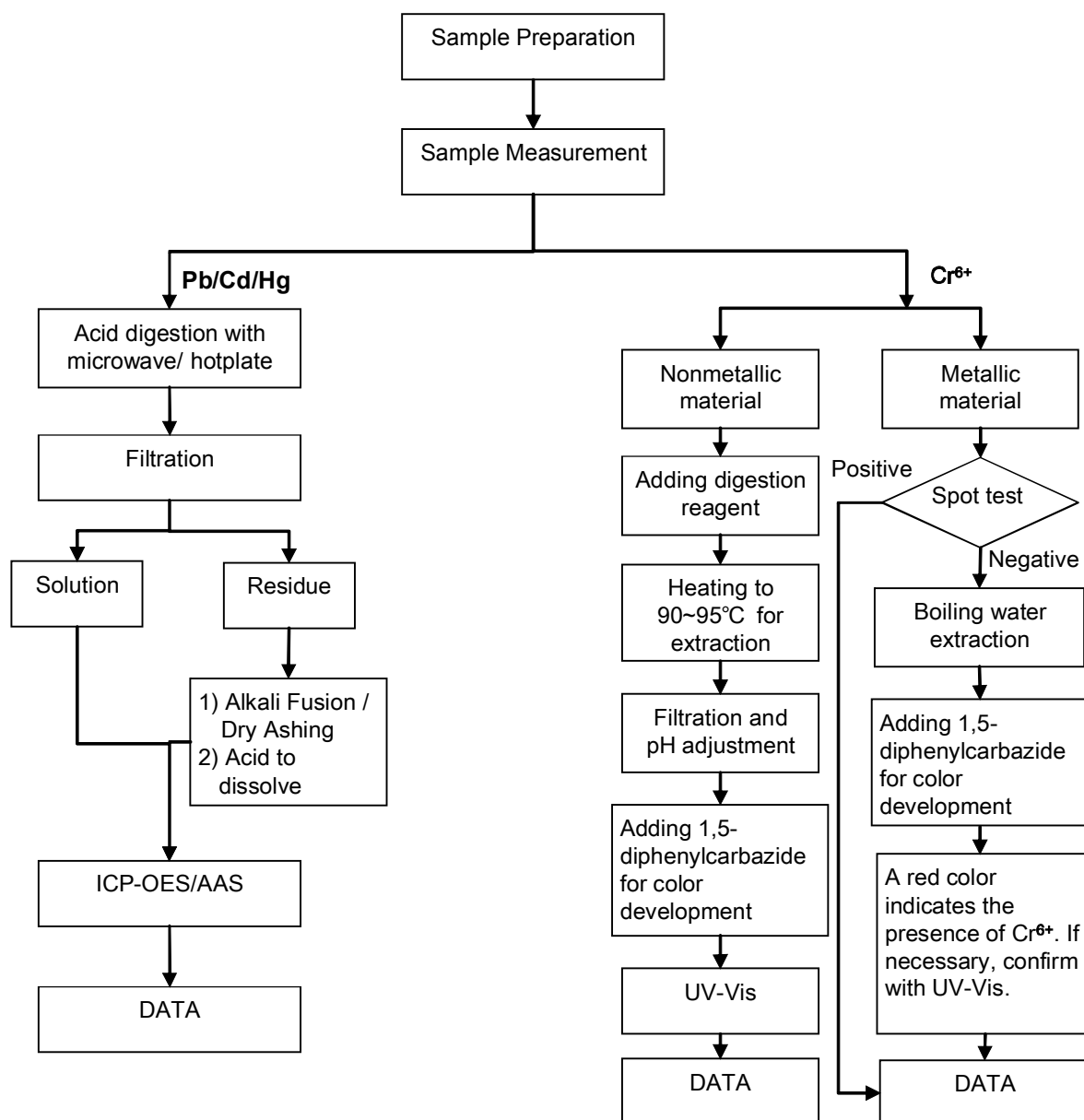
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang
- 2) Name of the person in charge of testing: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ test method excluded).



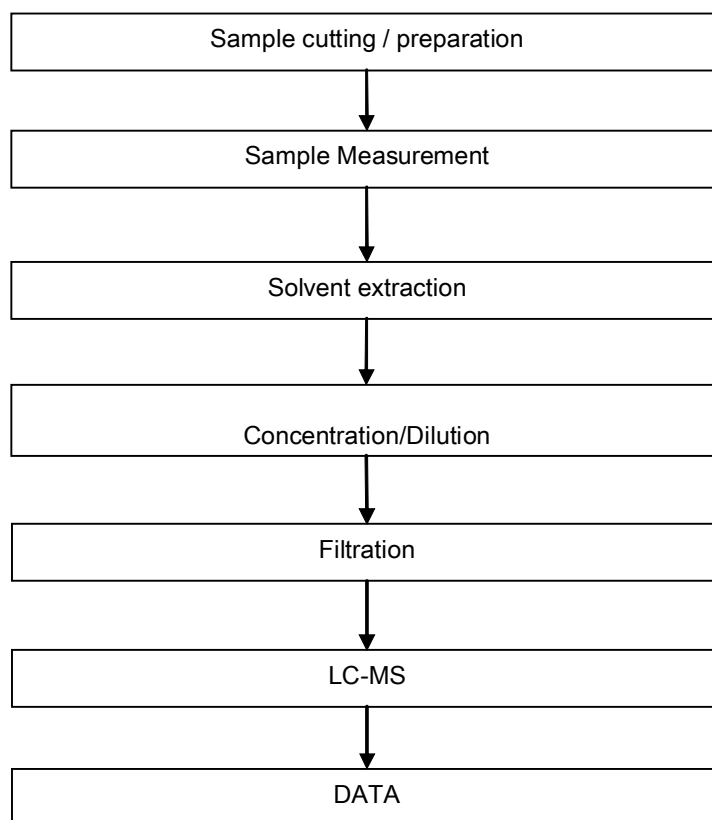
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ATTACHMENTS

PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Cindy Huang
- 2) Name of the person in charge of testing: Ryan Yang



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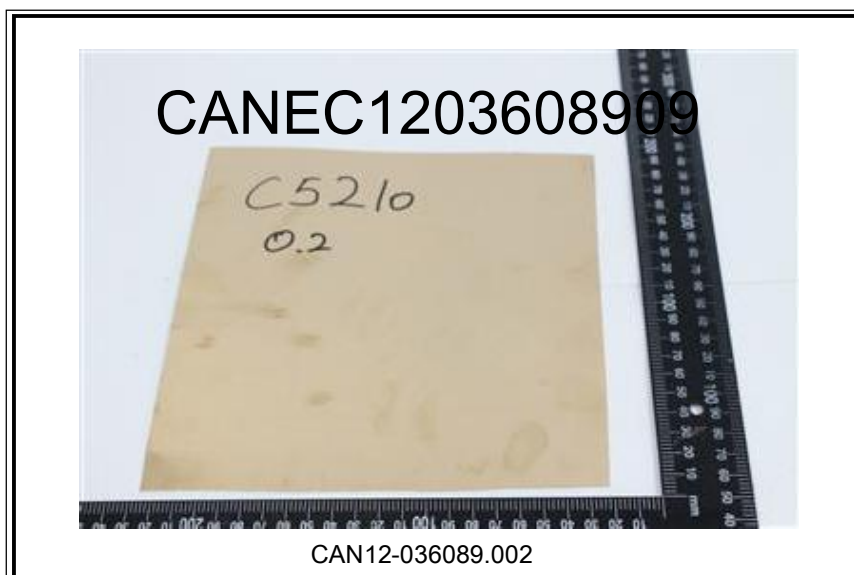
Test Report

No. CANEC1203608909

Date: 09 Apr 2012

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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測試報告

號碼：CE/2011/A4634A 日期：2011/11/01 頁數：1 of 13

KURARAY CO., LTD.

OTE CENTER BLDG., 1-1-3, OTEMACHI, CHIYODA-KU, TOKYO, JAPAN



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：

樣品名稱	:	NEW HEAT RESISTANT POLYAMIDE RESIN
樣品型號	:	GENESTAR GN2330-1-NA
收件日期	:	2011/10/25
測試期間	:	2011/10/25 TO 2011/11/01

測試結果 : 請見下一頁。

結論 : 根據客戶所提供的樣品，其多苯環芳族化合物的測試結果符合德國ZLS的ZEK 01.2-08及其相關修訂文件中的第1類PAHs要求。


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

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測試報告

號碼：CE/2011/A4634A 日期：2011/11/01 頁數：2 of 13

KURARAY CO., LTD.

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測試結果

測試部位 No.1 : 米黃色塑膠粒

測試項目	單位	測試方法	方法偵測 極限值	結果
				No.1
鎘	mg/kg	參考IEC 62321: 2008方法, 以感應 耦合電漿原子發射光譜儀(ICP-AES) 檢測。	2	n.d.
鉛	mg/kg	參考IEC 62321: 2008方法, 以感應 耦合電漿原子發射光譜儀(ICP-AES) 檢測。	2	n.d.
汞	mg/kg	參考IEC 62321: 2008方法, 以感應 耦合電漿原子發射光譜儀(ICP-AES) 檢測。	2	n.d.
六價鉻	mg/kg	參考IEC 62321: 2008方法, 以UV- VIS檢測。	2	n.d.
鄰苯二甲酸甲基丁酯 (BBP) (CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/質譜儀 (GC/MS)檢測之。	0.003	n.d.
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀 (GC/MS)檢測之。	0.003	n.d.
鄰苯二甲酸二異癸酯 (DIDP) (CAS No.: 26761-40-0)	%	參考EN 14372, 以氣相層析/質譜儀 (GC/MS)檢測之。	0.01	n.d.
鄰苯二甲酸二異壬酯 (DINP) (CAS No.: 28553-12-0)	%	參考EN 14372, 以氣相層析/質譜儀 (GC/MS)檢測之。	0.01	n.d.
鄰苯二甲酸二正辛酯 (DNOP) (CAS No.: 117-84-0)	%	參考EN 14372, 以氣相層析/質譜儀 (GC/MS)檢測之。	0.003	n.d.
鄰苯二甲酸二丁酯 (DBP) (CAS No.: 84-74-2)	%	參考EN 14372, 以氣相層析/質譜儀 (GC/MS)檢測之。	0.003	n.d.
六溴環十二烷 (HBCDD) (CAS No.: 25637-99-4)	mg/kg	參考US EPA 3540C方法, 以氣相層 析/質譜儀(GC/MS)檢測。	5	n.d.
全氟辛烷磺酸 (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3540C: 1996方法, 以 液相層析/質譜儀(LC/MS)檢測。	10	n.d.
全氟辛酸(銨) (PFOA) (CAS No.: 335-67-1)	mg/kg	參考US EPA 3540C: 1996方法, 以 液相層析/質譜儀(LC/MS)檢測。	10	n.d.
聚氯乙烯(PVC)	**	以紅外光譜分析及焰色法檢測。	-	Negative

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測試報告

號碼：CE/2011/A4634A 日期：2011/11/01 頁數：3 of 13

KURARAY CO., LTD.

OTE CENTER BLDG., 1-1-3, OTEMACHI, CHIYODA-KU, TOKYO, JAPAN



測試項目	單位	測試方法	方法偵測 極限值	結果 No.1
多溴聯苯總和	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀(GC/MS)檢測。	-	n.d.
一溴聯苯			5	n.d.
二溴聯苯			5	n.d.
三溴聯苯			5	n.d.
四溴聯苯			5	n.d.
五溴聯苯			5	n.d.
六溴聯苯			5	n.d.
七溴聯苯			5	n.d.
八溴聯苯			5	n.d.
九溴聯苯			5	n.d.
十溴聯苯			5	n.d.
多溴聯苯醚總和			-	n.d.
一溴聯苯醚			5	n.d.
二溴聯苯醚			5	n.d.
三溴聯苯醚			5	n.d.
四溴聯苯醚			5	n.d.
五溴聯苯醚			5	n.d.
六溴聯苯醚			5	n.d.
七溴聯苯醚			5	n.d.
八溴聯苯醚			5	n.d.
九溴聯苯醚			5	n.d.
十溴聯苯醚			5	n.d.
鹵素				
鹵素 (氯) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析。	50	2150
鹵素 (氯) (CAS No.: 22537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析。	50	n.d.
鹵素 (溴) (CAS No.: 10097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析。	50	117000
鹵素 (碘) (CAS No.: 14362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析。	50	n.d.

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測試項目	單位	測試方法	方法偵測 極限值	結果
				No.1
多苯環芳香族化合物 (PAHs)				
Acenaphthene (CAS No.: 83-32-9)	mg/kg	參考ZLS standard ZEK 01.2-08方法，以氣相層析/質譜儀(GC/MS)檢測。	0.2	n.d.
Acenaphthylene (CAS No.: 208-96-8)			0.2	n.d.
Anthracene (CAS No.: 120-12-7)			0.2	n.d.
Benzo[a]anthracene (CAS No.: 56-55-3)			0.2	n.d.
Benzo[a]pyrene (CAS No.: 50-32-8)			0.2	n.d.
Benzo[b]fluoranthene (CAS No.: 205-99-2)			0.2	n.d.
Benzo[g,h,i]perylene (CAS No.: 191-24-2)			0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 207-08-9)			0.2	n.d.
Chrysene (CAS No.: 218-01-9)			0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)			0.2	n.d.
Fluoranthene (CAS No.: 206-44-0)			0.2	n.d.
Fluorene (CAS No.: 86-73-7)			0.2	n.d.
Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)			0.2	n.d.
Naphthalene (CAS No.: 91-20-3)			0.2	n.d.
Phenanthrene (CAS No.: 85-01-8)			0.2	n.d.
Pyrene (CAS No.: 129-00-0)			0.2	n.d.
多苯環芳香族化合物16項總和			-	n.d.

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備註：

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. **定性分析(無單位)
6. Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)

參考資料：

依據ZEK 01.2-08之要求：產品中最大值為

項目	第1類	第2類	第3類
	意圖放入嘴內的材料或與36個月以下的幼兒皮膚有所接觸的玩具。	可預見與皮膚接觸逾30秒(長期與皮膚接觸)，以及不屬於第1類的材料。	可預見與皮膚接觸短於30秒(短期與皮膚接觸)，以及不屬於第1類或第2類的材料。
苯駢(a)芘 Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
環保署規範16項PAH 總濃度 (mg/kg)*	<MDL (<0.2)**	10	200

注意：* = PAH濃度大於0.2mg/kg時，則須計算PAH總濃度值

** = 最大濃度值超出等級一的限制，但在等級二的濃度限制值內時，可能需要確認測試材質是否適用於與食品或與口腔黏膜接觸，並依照EN 1186, ff. and § 64 LFBG 80.30-1方法，針對特定PAH的遷移測試進行測試。遷移測試的結論需依照食品規範評估。

PFOS參考資訊：指令 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%。
- (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1µg/m²。

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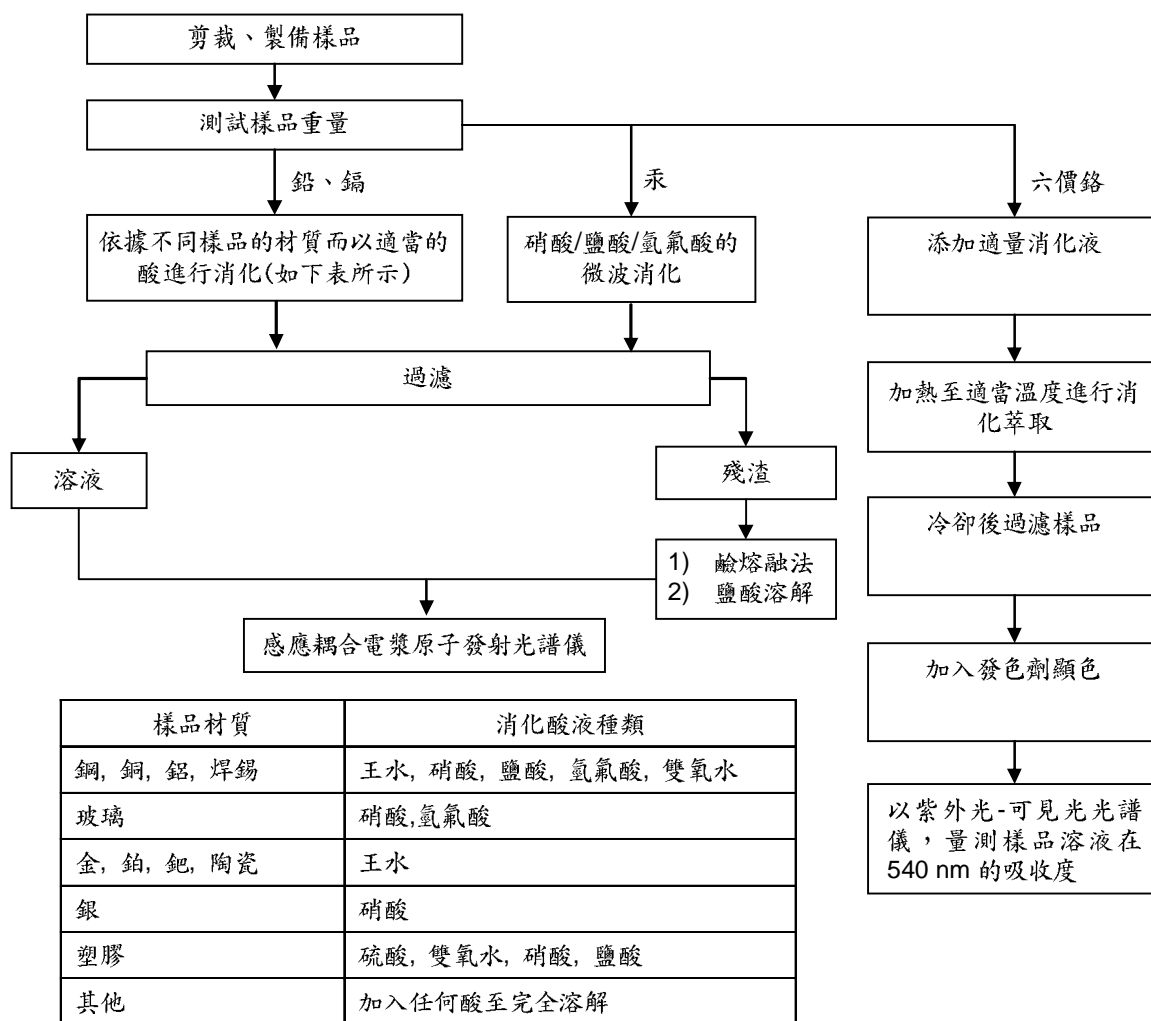
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1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

2) 測試人員：楊登偉

3) 測試負責人：張啓興



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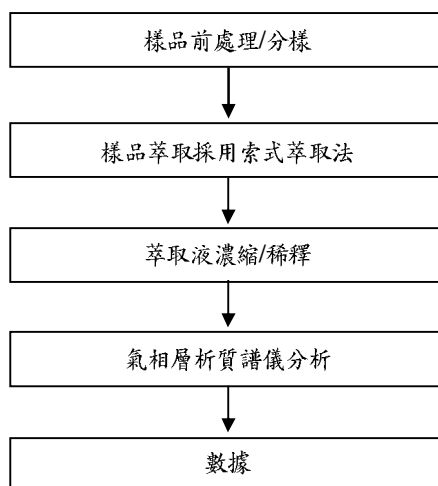
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索式萃取(GC/MS)分析流程圖

- 測試人員：翁賜彬
- 測試負責人：張啓興

【測試項目：可塑劑、苯並三唑類化合物、六溴環十二烷、壬酚、
單甲基二溴二苯基甲烷、有機磷化合物】



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KURARAY CO., LTD.

OTE CENTER BLDG., 1-1-3, OTEMACHI, CHIYODA-KU, TOKYO, JAPAN

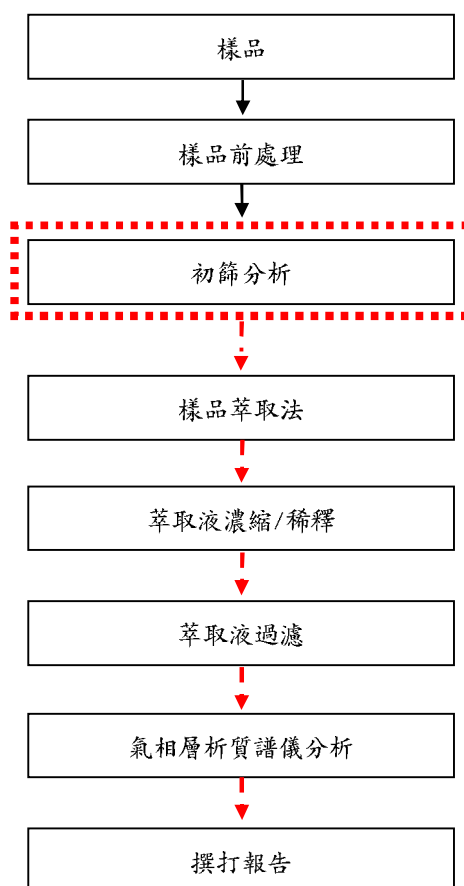


分析流程圖

- 測試人員：翁賜彬
- 測試負責人：張啓興

【測試項目：多溴聯苯/多溴聯苯醚，四溴雙酚-A-雙】

初次測試程序 —————> 選擇性篩檢程序 確認程序 - - - ->



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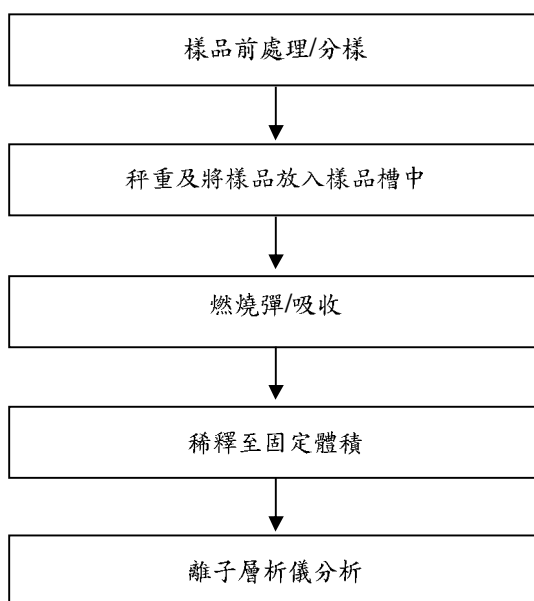
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鹵素分析流程圖

- 1) 測試人員：陳恩臻
- 2) 測試負責人：張啓興



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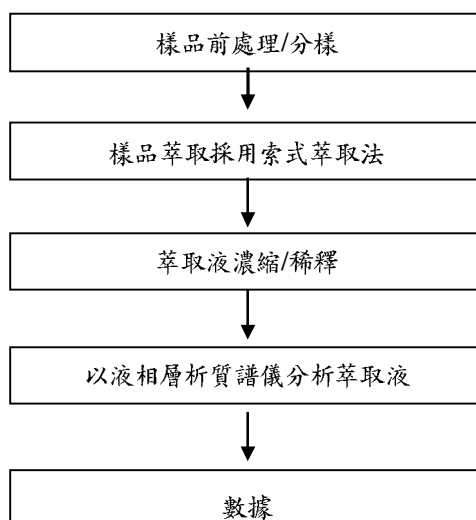
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索式萃取(LC/MS)分析流程圖

- 測試人員：翁賜彬
- 測試負責人：張啓興

【測試項目：全氟辛酸磺酸/全氟辛酸(銨)、苯並三唑類化合物】



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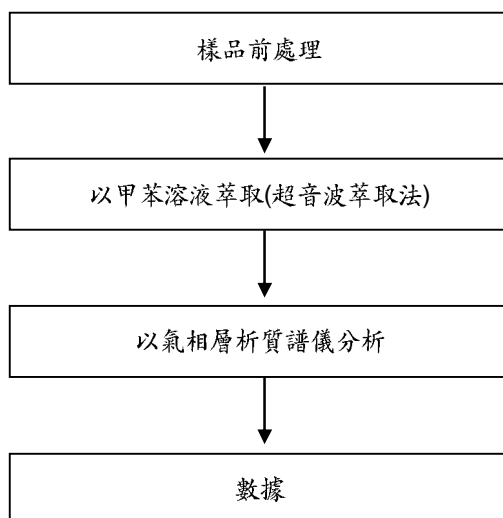
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多苯環芳香族化合物分析流程圖

- 測試人員：翁賜彬
- 測試負責人：張啓興



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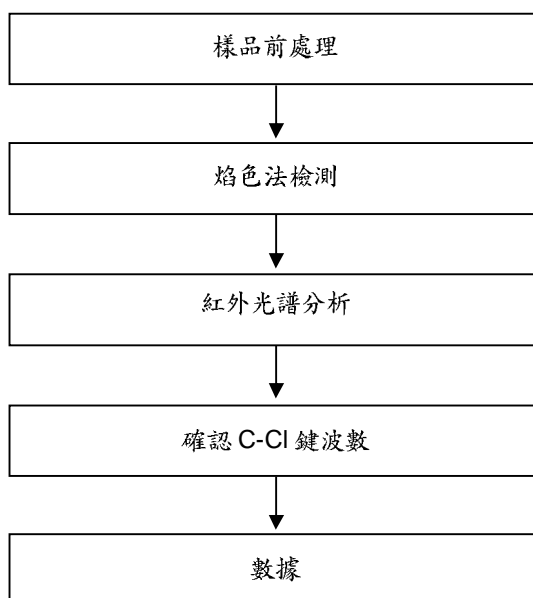
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聚氯乙稀物質判定分析流程圖

- 測試人員：陳君涵
- 測試負責人：張啓興



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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。 *

CE/2011/A4634



** 報告結尾 **

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Genestar™ GN2330

Polyamide 9T

Kuraray America, Inc.



Prospector

Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 33% Filler by Weight	
Forms	• Pellets	
Specific Gravity	1.62 g/cm ³	
Melt Mass-Flow Rate (MFR) (320°C/2.16 kg)	21 g/10 min	ASTM D1238
Molding Shrinkage		
Flow: 1.00 mm	0.10 %	
Across Flow: 1.00 mm	0.80 %	
Water Absorption ² (Saturation, 40°C)	1.0 %	
Tensile Strength	165 MPa	ASTM D638
Tensile Elongation (Break)	4.0 %	ASTM D638
Flexural Modulus	11000 MPa	ASTM D790
Flexural Strength	240 MPa	ASTM D790
Notched Izod Impact	100 J/m	ASTM D256
Deflection - Temperature Under Load		ASTM D648
1.8 MPa, Unannealed	285 °C	
Glass Transition Temperature (DSC)	125 °C	
Melting Temperature	308 °C	
Volume Resistivity	1.0E+16 ohm-cm	ASTM D257
Dielectric Strength	30 kV/mm	ASTM D149
Relative Permittivity (10 GHz)	3.40	ASTM D150
Dissipation Factor (10 GHz)	0.010	ASTM D150
Homo Rating - UL	V-0	UL 94
Comparative Tracking Index (CTI) (PLC)	PLC 1	UL 746
Bar Flow Length (320°C, 0.500 mm, 750 kgf)	5.50 cm	
Weld Elongation	0.70 %	ASTM D638
Weld Strength	54.0 MPa	ASTM D638

Notes

¹ Typical properties; these are not to be construed as specifications.

² 50% RH, 36 hrs



Test Report

No. CANEC1111771201

Date: 15 Dec 2011

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SHEN ZHEN YONGLI PLATING PRODUOTS CO.,LTD

3TH INDUSTRIAL ZONE BITOU SONGGANG S.T. BAOAN DISTRICT SHENZHEN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Glod plating potions

SGS Job No. : CP11-012595 - SZ

Date of Sample Received : 09 Dec 2011

Testing Period : 09 Dec 2011 - 15 Dec 2011

Test Requested : Selected test(s) as requested by client.

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

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

Conclusion : Based on the performed tests on selected part of submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits in RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.

Merry Lv
Approved Signatory

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SGS Standard Technical Service Co., Ltd.
Shenzhen SGS Standard Technical Laboratory

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Test Report

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN11-117712.001	Pink transparent liquid

Remarks :

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

RoHS Directive 2011/65/EU

Test Method : With reference to IEC 62321:2008

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

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

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

Notes :

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II

Remark : The result(s) shown is of the total weight of wet sample.

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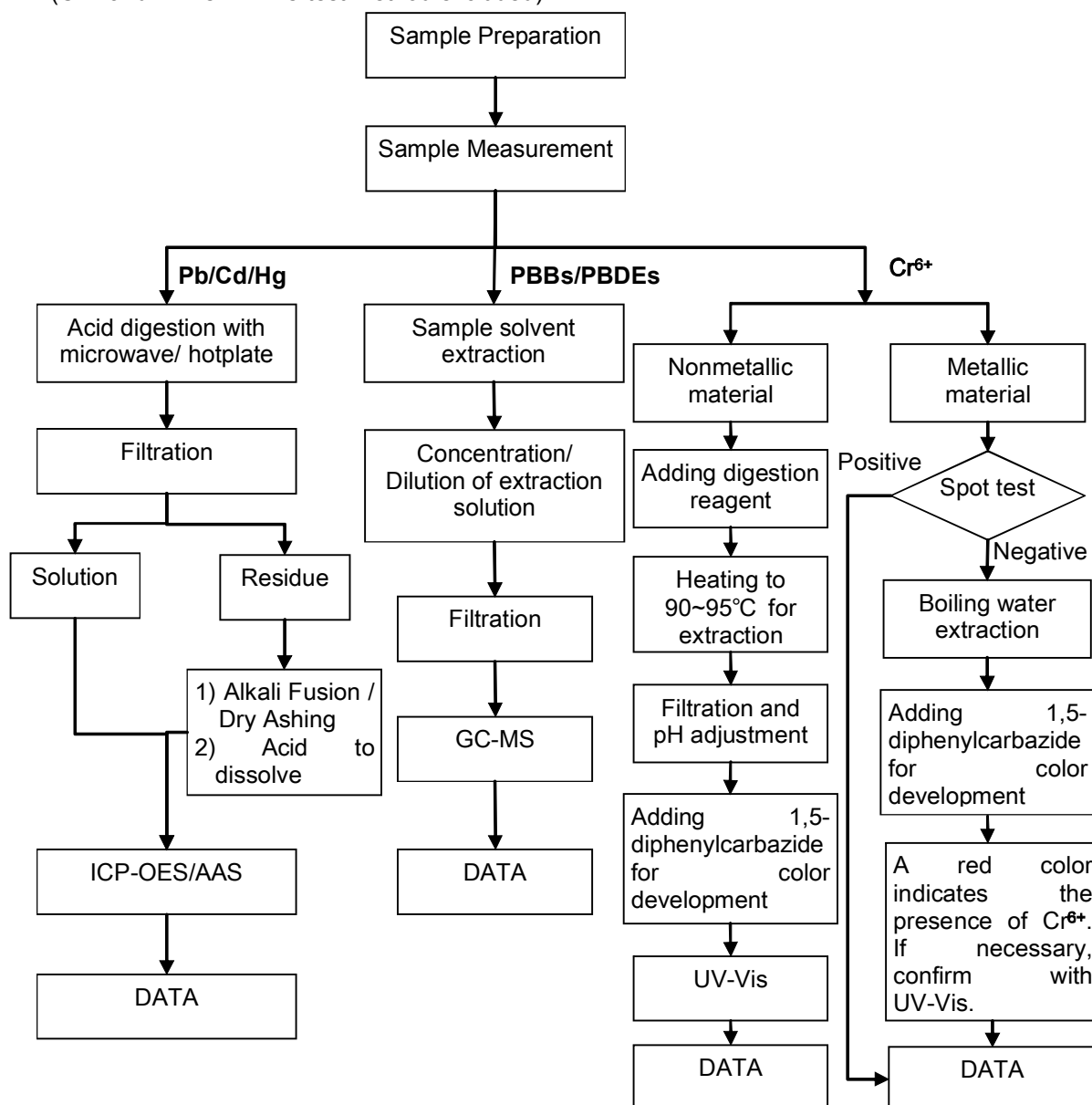
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Cutey Yu / Ross Zhan
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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Sample photo:



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