

Company name:

Product Series:

Product #:

Issue Date:

ICP Test Report Certification Packet

Ultra-low Capacitance Protection Array -

(SOT5x3 package for SP1000 and SP3000 series)

SP3003-02XTG, SP3003-04XTG, SP3004-04XTG SP1001-02XTG, SP1001-04XTG, SP1001-05XTG

Littelfuse, Inc.

February 10, 2012

It is hereby certified by Littelfuse, Inc. that there is neither RoHS (EU Directive 2002/95/EC)-restricted substance nor such use, for materials to be used for unit parts, for packing/packaging materials, and for additives and the like in the manufacturing processes. In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/packaging materials, and the additives and the like in the manufacturing processes, are all composed of the following components.
Issued by: KRISTEEN BACILA <global ehs="" engineer=""></global>
 (1) Parts, sub-materials and unit parts This document covers the SP300x-xxJTG & SP1001-xxJTG RoHS-Compliant series products manufactured by Littelfuse, Inc. < Raw Materials Used Please see Table 1
(2) The ICP data on all measurable substances Please see appropriate pages as identifed in Table 1
Remarks : .
1



Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	NA	IC Wafer	3-6
2	NA	Leadframe - N42	7-11
3	NA	Epoxy - H9607	12-16
4	NA	Au Wire	17-29
5	NA	Compound - Eler-8	30-54
6	NA	Tin	55-62



No.: CE/2012/12342

Date: 2012/01/18

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EPISIL TECHNOLOGIES INC.

THE REPORT OF THE PARTY OF THE

NO. 3, INNOVATION ROAD 1, SCIENCE BASED INDUSTRIAL PARK, HSINCHU, TAIWAN, R. O. C.

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

Sample Description

: IC WAFER

Style/Item No.

: ALUMINUM PROCESS

Sample Receiving Date

: 2012/01/11

Testing Period

: 2012/01/11 TO 2012/01/18

Test Requested

: As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample.

Test Result(s)

: Please refer to next page(s).



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EPISIL TECHNOLOGIES INC.

NO. 3, INNOVATION ROAD 1, SCIENCE BASED INDUSTRIAL PARK, HSINCHU, TAIWAN, R. O. C.

Test Result(s)

PART NAME No.1

MULTICOLOR WAFER

Test Item(s)	Unit	Method	MDL	Result	
0-4-: (0.1)			MIDL	No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	

Note:

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

2. n.d. = Not Detected

3. MDL = Method Detection Limit

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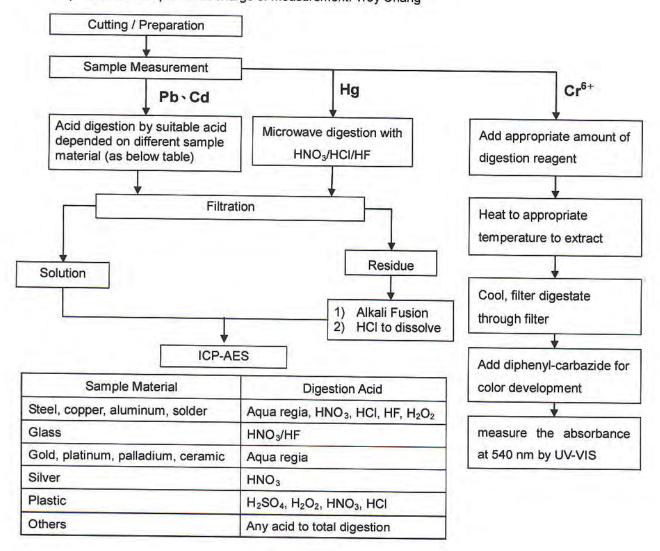
Date: 2012/01/18

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EPISIL TECHNOLOGIES INC.

NO. 3, INNOVATION ROAD 1, SCIENCE BASED INDUSTRIAL PARK, HSINCHU, TAIWAN, R. O. C.

- 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





No.: CE/2012/12342

Date: 2012/01/18

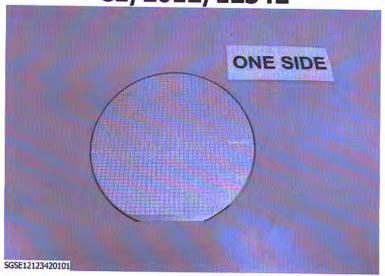
Page: 4 of 4

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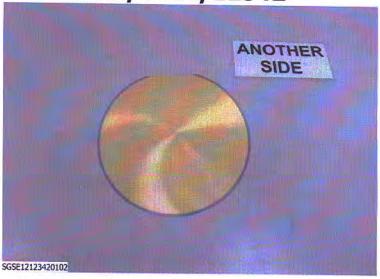
NO. 3, INNOVATION ROAD 1, SCIENCE BASED INDUSTRIAL PARK, HSINCHU, TAIWAN, R. O. C.

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

CE/2012/12342



CE/2012/12342



** End of Report **



No. SHAEC1100766102

Date: 21 Jan 2011

Page 1 of 5

SHUEN DER INDUSTRY(JIANGSU) CO.,LTD NO.6 SHANGHAI ROAD, ZHANGGAIGANG FREE TRADE ZONE JIANGSU PROVINCE CHINA

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

SGS Job No.:

SP11-001600 - SUZ

Composition:

N42

Model No.:

SOD

Sample May Cover:

SOT

Date of Sample Received :

19 Jan 2011

Testing Period:

19 Jan 2011 - 21 Jan 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 submitted samples, the results comply with the

RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of SGS-CSTC Ltd.

Fan Jingjie, JJ Approved Signatory

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No. SHAEC1100766102

Date: 21 Jan 2011

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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

1 SHA11-007661.002 Silver/grey metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2002/95/EC

Test Method: With reference to IEC 62321:2008

nchar Co. Cd

- (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.
- (5) Determination of PBBs / PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	Unit	MDL	002
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	\Diamond	Negative
Sum of PBBs	1,000	mg/kg	8	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	- E	mg/kg	5	ND

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Test Report	No. SHAEC11007661	02	Date: 21	Jan 2011	Page 3 of 5
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	002	
Dibromodiphenyl ether		mg/kg	5	ND	
Tribromodiphenyl ether	1	mg/kg	5	ND	
Tetrabromodiphenyl ether	1+1	mg/kg	5	ND	
Pentabromodiphenyl ether	49	mg/kg	5	ND	
Hexabromodiphenyl ether		mg/kg	5	ND	
Heptabromodiphenyl ether		mg/kg	5	ND	
Octabromodiphenyl ether	5	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether		mg/kg	5	ND	

Notes:

- (1) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC
- (2) O 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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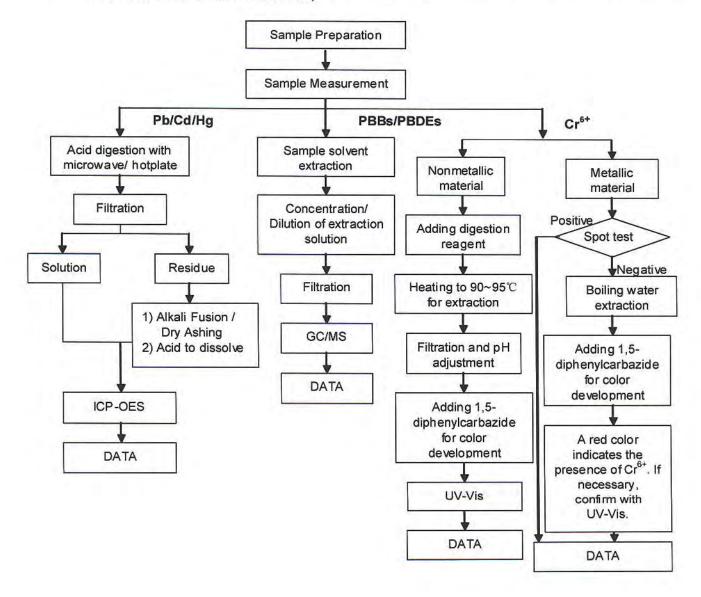
Date: 21 Jan 2011

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Allen Xiao/ Wesley Wei / Andy Zhao /Elim Lin
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu/Tracy Yue
- 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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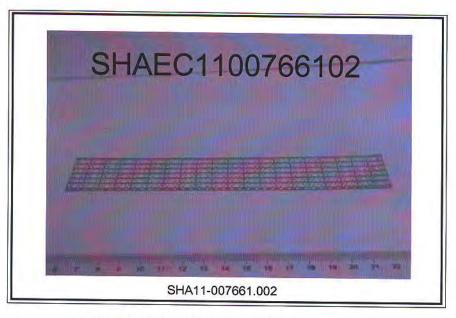


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Date: 21 Jan 2011

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Sample photo:



SGS authenticate the photo on original report only

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Test Report No.: CE/2011/34597 Date: 2011/03/23 Page: 1 of 5

NAMICS CORPORATION 3993 NIGORIKAWA, KITA-KU, NIIGATA-CITY 950-3131, JAPAN The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description

H9607

Sample Receiving Date

: 2011/03/17

Testing Period

2011/03/17 TO 2011/03/23

Test Requested

In accordance with the RoHS Directive 2002/95/EC, and its amendment

directives -

Test Method

: With reference to IEC 62321: 2008

Procedures for the Determination of Levels of Regulated Substances in

Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s)

Please refer to next page(s).



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Test Report No.: CE/2011/34597 Date: 2011/03/23 Page : 2 of 5

NAMICS CORPORATION 3993 NIGORIKAWA, KITA-KU, NIIGATA-CITY 950-3131, JAPAN Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	MDI
rest item (s):	(Refer to)	No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	112	n.d.	+
Monobromobiphenyl		n.d.	5
Dibromobiphenyl] [n.d.	5
Tribromobiphenyl] [n.d.	5
Tetrabromobiphenyl]	n.d.	5
Pentabromobiphenyl] [n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl] [n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl	(5)	n.d.	5
Sum of PBDEs] (3)	n.d.	
Monobromodiphenyl ether		n.d.	5
Dibromodiphenyl ether		n.d.	5
Tribromodiphenyl ether] [n.d.	5
Tetrabromodiphenyl ether	1 [n.d.	5
Pentabromodiphenyl ether] [n.d.	5
Hexabromodiphenyl ether] [n.d.	5
Heptabromodiphenyl ether		n.d.	5
Octabromodiphenyl ether		n.d.	5
Nonabromodiphenyl ether		n.d.	5
Decabromodiphenyl ether		n.d.	5

TEST PART DESCRIPTION:

SILVER COLORED PASTE No.1:

Note:

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

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. "-" = Not Regulated

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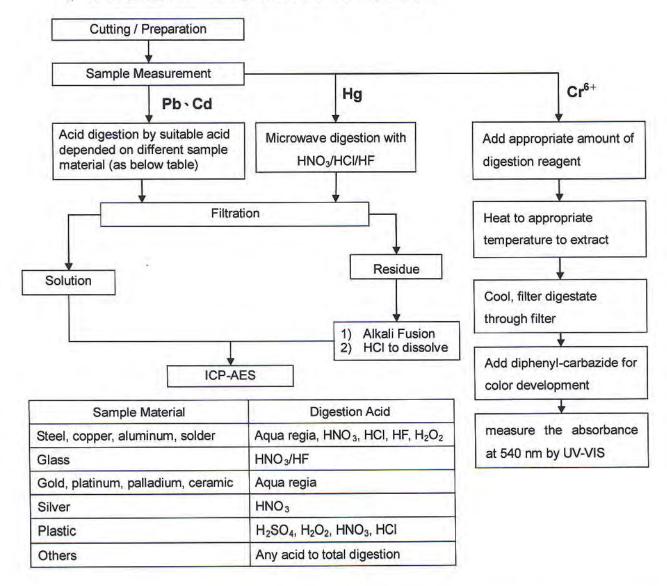
Date: 2011/03/23

Page : 3 of 5

NAMICS CORPORATION 3993 NIGORIKAWA, KITA-KU, NIIGATA-CITY 950-3131, JAPAN



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



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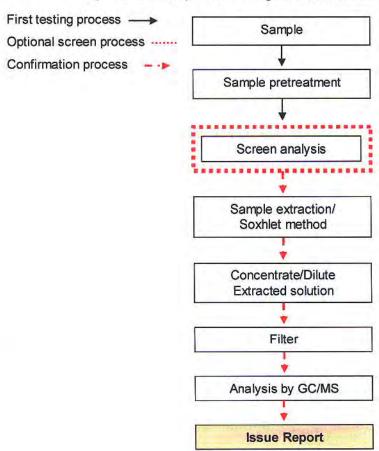
Page : 4 of 5

NAMICS CORPORATION 3993 NIGORIKAWA, KITA-KU, NIIGATA-CITY 950-3131, JAPAN



PBB/PBDE analytical FLOW CHART

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



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Test Report No.: CE/2011/34597 Page : 5 of 5 Date: 2011/03/23

NAMICS CORPORATION 3993 NIGORIKAWA, KITA-KU, NIIGATA-CITY 950-3131, JAPAN



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No. SHAEC1100514403

Date: 18 Jan 2011

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Heraeus (Zhaoyuan)Metal Materials Co., Ltd/Heraeus Zhaoyuan (Changshu) Electronic Materials Co., Ltd. No.238 Linglong Road Zhaoyuan Shandong/Huangpujiang Road, Changshu Southeast Economic Development Zone, Changshu, Jiangsu

The following sample(s) was/were submitted and identified on behalf of the clients as : GOLD BONDING WIRE HD

SGS Job No. :

SP11-000807 - SH

Date of Sample Received :

12 Jan 2011

Testing Period :

12 Jan 2011 - 18 Jan 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 submitted samples, the results comply with the

RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of SGS-CSTC Ltd.

Fan Jingjie, JJ Approved Signatory

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No. SHAEC1100514403

Date: 18 Jan 2011

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Test Results:

1

Test Part Description:

Specimen No. SGS Sample ID

Description

SHA11-005144.002

Golden metal wire

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2002/95/EC

Test Method: With reference to IEC 62321:2008

(1) Determination of Cadmium by ICP-OES.

(2) Determination of Lead by ICP-OES.

(3) Determination of Mercury by ICP-OES.

(4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

(5) Determination of PBBs / PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	002
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)	-	-	\rightarrow	Negative
Sum of PBBs	1,000	mg/kg	á	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	0	mg/kg	5	ND
Tr <mark>i</mark> bromobiphenyl	1.9	mg/kg	5	ND
Tetrabromobiphenyl	9	mg/kg	5	ND
Pentabromobiphenyl	C 2 c1	mg/kg	5	ND
Hexabromobiphenyl		mg/kg	5	ND
H <mark>e</mark> ptabromobiphenyl		mg/kg	5	ND
Octabromobiphenyl	4	mg/kg	5	ND
Nonabromobiphenyl	C \$ 0	mg/kg	5	ND
Decabromobiphenyl	6	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	3	mg/kg	5	ND

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Test Report	No. SHAEC11005144	03	Date: 18	Jan 2011	Page 3 of 13
Test Item(s)	Limit	Unit	MDL	<u>002</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether		mg/kg	5	ND	
Tetrabromodiphenyl ether		mg/kg	5	ND	
Pentabromodiphenyl ether	i i	mg/kg	5	ND	
Hexabromodiphenyl ether	100	mg/kg	5	ND	
Heptabromodiphenyl ether		mg/kg	5	ND	
Octabromodiphenyl ether	1.9	mg/kg	5	ND	
Nonabromodiphenyl ether		mg/kg	5	ND	
Decabromodiphenyl ether	19	mg/kg	5	ND	

Notes:

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

Halogen

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

Test Item(s)	<u>Unit</u>	MDL	002
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Element(s)

Test Method: With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

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Test Report	No. SHAEC1100514403		Date: 18	Jan 2011	Page 4 of 13
Test Item(s)	U	nit	MDL	002	
Antimony (Sb)	mg	g/kg	10	ND	
Sb ₂ O₃◆	mg	g/kg	12	ND	
Phosphorus (P)	mg	g/kg	20	ND	
	•				

Notes:

Hexabromocyclododecane (HBCDD)

Test Method: With reference to EPA 8270D: 2007. Analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	MDL	002
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Phthalates

Test Method: With reference to EN14372: 2004, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	MDL	002
Dibutyl Phthalate (DBP)	%	0.003	ND
Benzylbutyl Phthalate (BBP)	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	ND

Notes:

- (1) DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
 - i) Shall not be used as substances or in mixtures, in concentrations greater than 0,1 % by weight of the plasticised material, in toys and childcare articles.
 - ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

Tetrabromobisphenol A (TBBP-A)

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

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3"Bullding,No.889 Yishan Road Xuhui District,Shanghai China 200233 中国 - 上海 - 徐汇区宜山路889号3号楼 邮编: 200233 ^{(1) ◆} Calculated concentration of Sb₂O₃ is based on the identified Sb



No. SHAEC1100514403

Date: 18 Jan 2011

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Test Item(s)

Tetrabromobisphenol A (TBBP-A)

Unit mg/kg MDL 10

002 ND

PFOS (Perfluorooctane Sulfonates)

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

Test Item(s)

<u>Unit</u>

MDL

002

Perfluorooctane Sulfonates (PFOS) and related

Acid, Metal Salt and Amide

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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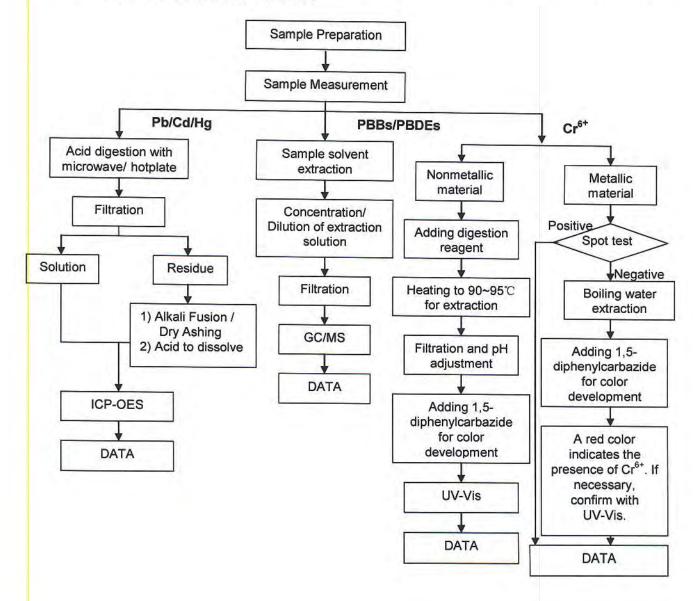
Date: 18 Jan 2011

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Allen Xiao/ Wesley Wei / Andy Zhao /Elim Lin
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu/Tracy Yue
- 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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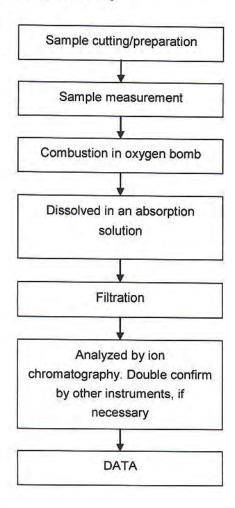
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Halogen Testing Flow Chart

- 1) Name of the person who made testing: Daisy Gong
- 2) Name of the person in charge of testing: Alex Jiang



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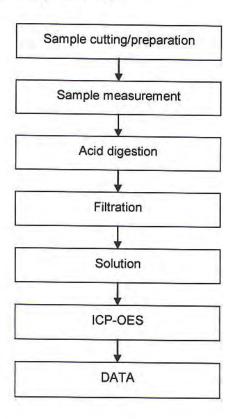
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Elementary Testing Flow Chart

- 1) Name of the person who made testing: Wesley Wei / Allen Xiao
- 2) Name of the person in charge of testing: Jeff Zhang



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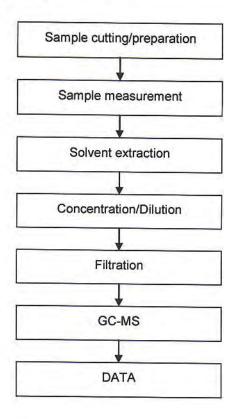
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HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Bill Zhong
- 2) Name of the person in charge of testing: Susan Liu



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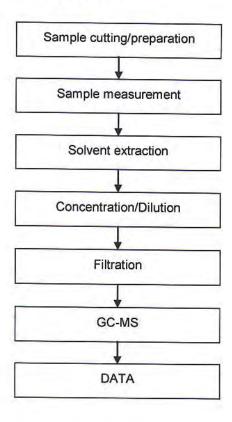
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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Vickey Gui
- 2) Name of the person in charge of testing: Susan Liu



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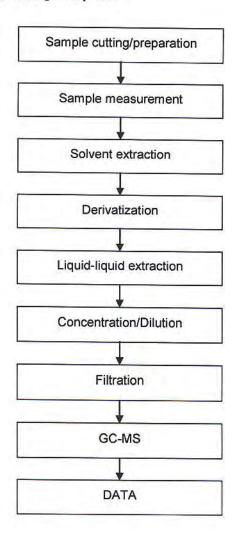
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Date: 18 Jan 2011

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TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Gary Xu
- 2) Name of the person in charge of testing: Tracy Yue



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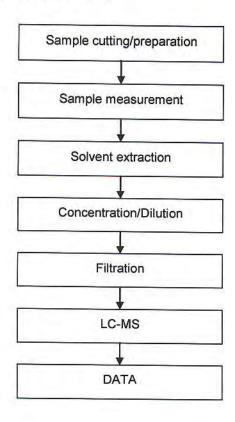
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PFOS Testing Flow Chart

- 1) Name of the person who made testing: Judy Li
- 2) Name of the person in charge of testing: Nancy Du



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測試報告 **Test Report**

號碼(No.): KA/2011/91531 日期(Date): 2011/10/03 頁數(Page): 1 of 25

義典科技股份有限公司

E'DALE (WUXI-E'DALE) TECHNOLOGY CO., LTD.

台南縣佳里鎮六安里六安130號/江蘇省無錫市東港鎮錫港東路35號

NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722, R.O.C.

NO.35 XIGANG ROAD , DONGHUTANG TOWN XISHAN DISTRICT, WUXI CITY

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

: ELER-8-SERIES

: 2011/09/26

樣品名稱(Sample Description)

樣品型號(Style/Item No.)

測試期間(Testing Period)

收件日期(Sample Receiving Date)

: 2011/09/26 TO 2011/10/03

: EPOXY MOLDING COMPOUND

送樣廠商(Sample Submitted By)

: 義典科技股份有限公司 (E'DALE (WUXI-E'DALE) TECHNOLOGY CO., LTD.)

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

Ray Chang / Asst. Manage Signed for and on behalf of **SGS Taiwan Limited**



號碼(No.): KA/2011/91531 日期(Date): 2011/10/03 頁數(Page): 2 of 25

義典科技股份有限公司

E'DALE (WUXI-E'DALE) TECHNOLOGY CO., LTD.

台南縣佳里鎮六安里六安130號/江蘇省無錫市東港鎮錫港東路35號

NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722, R.O.C.

NO.35 XIGANG ROAD , DONGHUTANG TOWN XISHAN DISTRICT, WUXI CITY

測試結果(Test Results)

測試部位(PART NAME) NO.1

黑色 EPOXY MOLDING COMPOUND (BLACK EPOXY MOLDING COMPOUND)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 用感應藕合電 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, 用感應藕合電 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	参考IEC 62321: 2008方法, 用感應藕合電 漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價络 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	参考IEC 62321: 2008方法, 用UV-VIS檢 測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
多溴聯苯總和 / Sum of PBBs		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	Du		5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n,d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.

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NO. 130, LIOUAN, LIOUAN LI, JIALI, TAINAN, TAIWAN 722, R.O.C.

NO.35 XIGANG ROAD , DONGHUTANG TOWN XISHAN DISTRICT, WUXI CITY

測試項目	單位	測試方法	方法偵測 極限値	結果 (Result)
(Test Items)	(Unit)	(Method)	(MDL)	NO.1
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.
- 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		參考IEC 62321: 2008方法, 以氣相層析儀	5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	/質譜儀檢測. / With reference to IEC	5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether		62321: 2008 and performed by GC/MS.	5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
入溴聯苯醚 / 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.
绨 / Antimony (Sb)	mg/kg	參考US EPA 3052方法, 用感應藕合電漿原子發射光譜儀檢測錦含量. / With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.
磷 / Phosphorus (P)	mg/kg	參考US EPA 3052方法, 用感應藕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	104
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS - Acid, Metal Salt, 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.
全氣辛酸(銨) / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛酸(銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
多氣聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	参考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.
多氣奈 / 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.
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.
氯化石蠟 / Chlorinated Paraffin (C10~C13) (CAS No.: 85535-84-8)	%	參考US EPA 3540C: 1996方法,以氣相層析儀/電子補捉偵測器檢測. / With reference to US EPA 3540C: 1996 method. Analysis was performed by GC/ECD.	0.01	n.d.
滅蟻霊 / Mirex (CAS No.: 2385-85-5)	mg/kg	參考US EPA 8270D方法, 以氣相層析質譜 儀(GC/MS)檢測. / With reference to US EPA 8270D method. Analysis was performed by GC/MS.	4	n.d.
五氣酚 / PCP (Pentachlorophenol) (CAS No.: 87-86-5)	mg/kg	參考KOH方法,以氣相層析儀/電子捕捉偵 測器(GC/ECD)檢測。/With reference to KOH method. Analysis was performed by GC/ECD.	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 極限値 (MDL)	結果 (Result) NO.1
聚氣乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	参考DIN 53313方法, 以氣相層析儀/質譜 儀檢測. / With reference to DIN 53313 method. Analysis was performed by GC/MS.	10	n.d.
六溴環十二烷 / Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	参考US EPA 3540C: 1996方法,以氣相層 析質譜儀檢測. / With reference to US EPA 3540C: 1996 method. Analysis was performed by GC/MS.	5	n.d.
鹵素 / Halogen				
鹵素 (氣) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	参考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 (氣) / Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	mg/kg	参考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	91.9
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	参考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	参考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測極限値	結果 (Result)
可塑劑定量分析 / Phthalates	12000		(MDL)	NO.1
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117- 81-7)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
己二酸二 (2-乙基己基)酯 / DEHA (Di-2- ethylhexyl adipate)(DOA) (CAS No.: 103- 23-1)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鄰苯二甲酸二甲酯 / DMP (Di-methyl phathalate) (CAS No.: 131-11-3)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372, Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丙酯 / DPrP (Di-propyl phthalate) (CAS No.: 131-16-8)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二環己酯 / DCHP (Di-cyclohexyl phthalate) (CAS No.: 84-61-7)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄭苯二甲酸二乙酯 / DEP (Di-ethyl phthalate) (CAS No.: 84-66-2)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄭苯二甲二異辛酯 / DIOP (Di-isooctyl phthalate) (CAS No.: 27554-26-3)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二正壬酯 / DNNP (Di-n-nonyl phthalate)(DNP) (CAS No.: 84-76-4)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二戊酯 / DPP (Di-pentyl phthalate) (CAS No.: 131-18-0)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄭苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	本測試參考EN 14372, 以氣相層析儀/質譜 儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)
多苯環芳香族化合物 / Polynuclear Aromatic Hydrocarbons (PAHs)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(MDL)	NO.1
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. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Acenaphthylene (CAS No.: 208-96-8)	mg/kg	參考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Anthracene (CAS No.: 120-12-7)	mg/kg	参考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo(a)anthracene (CAS No.; 56-55-3)	mg/kg	參考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg	參考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo(b)fluoranthene (CAS No.: 205-99-2)	mg/kg	参考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
Benzo(g,h,i)perylene (CAS No.: 191-24-2)	mg/kg	參考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method, Analysis was performed by GC/MS.	0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg	參考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Chrysene (CAS No.: 218-01-9)	mg/kg	參考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Dibenzo(a,h]anthracene (CAS No.: 53-70-3)	mg/kg	参考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Fluoranthene (CAS No.: 206-44-0)	mg/kg	參考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測, / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Fluorene (CAS No.: 86-73-7)	mg/kg	参考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
Indeno[1,2,3-c,d] pyrene (CAS No.: 193- 39-5)	mg/kg	參考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Naphthalene (CAS No.: 91-20-3)	mg/kg	參考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Phenanthrene (CAS No.: 85-01-8)	mg/kg	參考ZLS standard ZEK 01.2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Pyrene (CAS No.: 129-00-0)	mg/kg	参考ZLS standard ZEK 01,2-08方法,以 氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.2-08 method, Analysis was performed by GC/MS.	0.2	n.d.
多苯環芳香族化合物16項總和 / Sum of 16 PAHs	mg/kg	-		n.d.

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. 聚氯乙烯(PVC):Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 7. 聚氯乙烯测試由SGS其他實驗室執行 (The PVC test was subcontracted to other SGS Laboratory.)

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參考資料(Reference information): 依據ZEK 01.2-08之要求: 產品中最大值為

(Requirement of ZEK 01.2-08: Restraining maximum values for products)

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)	第3類 (Category 3)
	與食品接觸或放入嘴内的 材料,以及給三歲以下的 幼兒使用的玩具。 (Materials in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months.)	持續地(長時間)與皮膚接觸逾30秒,以及不屬第1 類的玩具。 (Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1.)	暫時地(短時間)與皮膚接觸但不逾30秒或不會與皮膚接觸. (Materials with foresceable skin contact <30 s (short time skin contact) or without skin contact.)
苯駢(a)芘 Benzo[a]pyrene (mg/kg)	<mdl (<0.2)**<="" td=""><td>1</td><td>20</td></mdl>	1	20
環保署規範16項PAH 總濃度 (Sum of 16 EPA-PAH) (mg/kg)*	<mdl (<0.2)**<="" td=""><td>10</td><td>200</td></mdl>	10	200

注意(Remark): * = PAH濃度大於0.2mg/kg時,則須計算PAH總濃度值

(Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs)

** = 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 是否合適於食品容器或是依照DIN EN1186ff/ §64 LFGB 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法規規範

(In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.)

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

- (1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%. (May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.)
- (2) 該物質不可置於市場上的半成品或商品或其物件;假若零件上明顯地具有PFOS並參照結構上及微細構造上計算 PFOS重量濃度等於或大於0.1%,而紡織品或其他覆蓋物質,如果PFOS在覆蓋物質中含量等於或大於1µg/m². (May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than lug/m2 of the coated material.)

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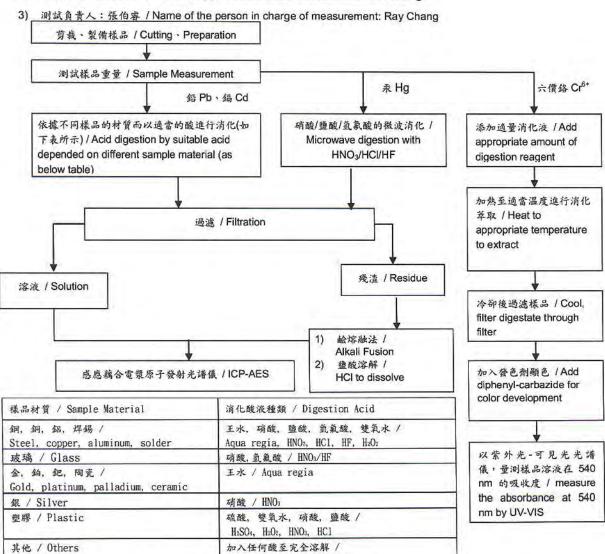
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。(() 價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) 测試人員:張俊雄 / Name of the person who made measurement: Alex Chang



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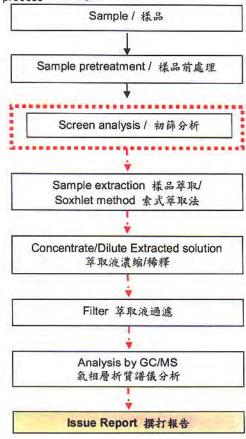
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)測試人員: 曹嘉琪 / Name of the person who made measurement: Anson Tsao 2)测試負責人: 張伯睿 / Name of the person in charge of measurement: Ray 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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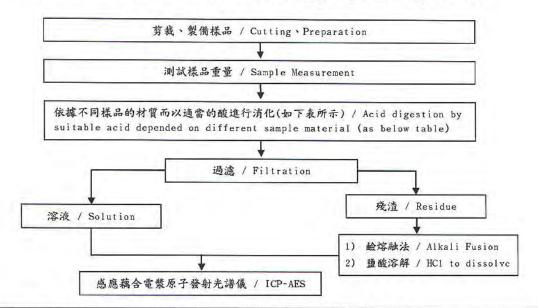
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:張俊雄 / Name of the person who made measurement: Alex Chang
- 3) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang

元素以 ICP-AES 分析的消化流程圖

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



鋼,鋼,鋁,焊錫 / Steel, copper, aluminum, solder	王水、硝酸、鹽酸、氫氣酸、雙氧水 / Aqua regia, HNOs, HC1, HF, HsOs
玻璃 / Glass	硝酸,氫氯酸 / HNOa/HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNOs
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H.SO4, H2O2, HNO2, HC1
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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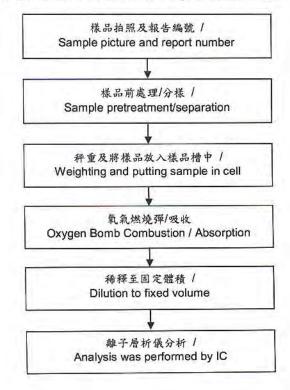


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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員: 洪秀真/ Name of the person who made measurement: Jean Hung
- 2) 测試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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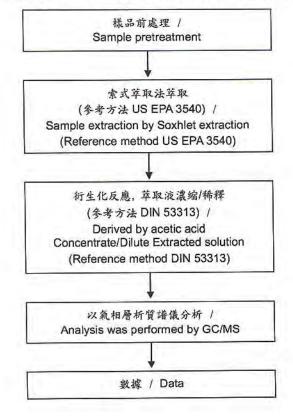


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四溴雙酚-A分析流程圖 / TBBP-A analytical flow chart

- 1) 测試人員:曹嘉琪 / Name of the person who made measurement: Anson Tsao
- 2) 測試負責人: 張伯睿 / Name of the person in charge of measurement: Ray Chang



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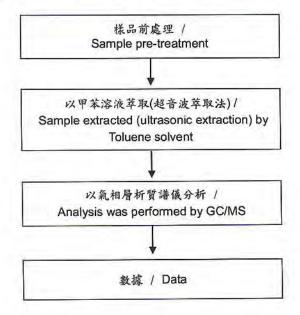
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多苯環芳香族化合物分析流程圖 / PAHs (Poly Aromatic Hydrocarbons) analytical flow chart

1)测试人员:曹嘉琪 / Name of the person who made measurement: Anson Tsao

2)测試負責人:張伯容 / Name of the person in charge of measurement: Ray Chang



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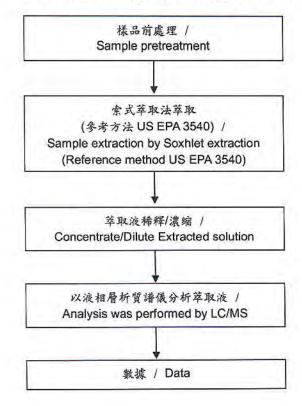
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全氟辛酸(銨)/ 全氟辛烷磺酸分析流程圖 /

Analytical flow chart of PFOA/PFOS content

1)测試人員:曹嘉琪 / Name of the person who made measurement: Anson Tsao

2)测試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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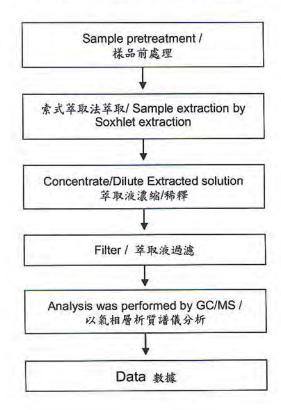


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六溴環十二烷分析流程圖 / HBCDD Analytical FLOW CHART

- 1) 测試人員:曹嘉琪/ Name of the person who made measurement: Anson Tsao
- 2) 測試負責人: 張伯睿/ Name of the person in charge of measurement: Ray Chang



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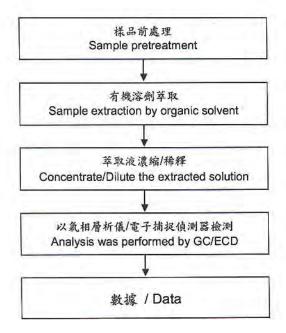
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含氯阻燃劑分析流程 /

Chlorinated Flame retardant analytical flow chart

- 1) 測試人員: 曹嘉琪 / Name of the person who made measurement: Anson Tsao
- 2) 測試負責人: 張伯睿 / Name of the person in charge of measurement; Ray Chang
 - 多考方法(Reference method): USEPA 3540
 - 测試項目(Test Items): PCBs, CP, MCCP / 多氯聯苯, 氯化石蠟, 中鏈氯化石蠟



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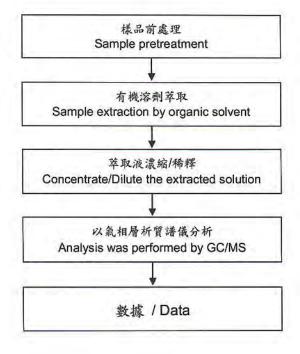
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含氯阻燃劑分析流程 /

Chlorinated Flame retardant analytical flow chart

- 1) 測試人員: 曹嘉琪 / Name of the person who made measurement: Anson Tsao
- 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang
 - 参考方法(Reference method): US EPA 8270D, US EPA 3540
 - 測試項目(Test Items): PCNs, PCTs, Mirex / 多氣奈, 多氣三聯苯,滅蟻靈,



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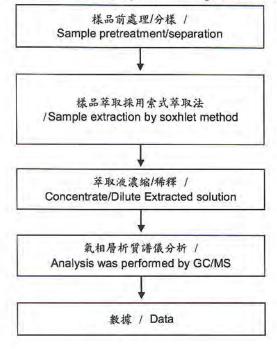
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

1)测試人員: 曹嘉琪 / Name of the person who made measurement: Anson Tsao

2)测試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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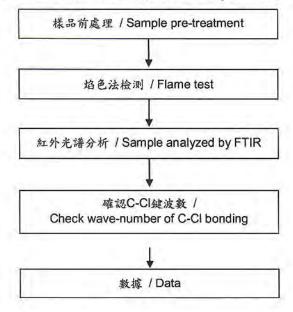
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

1)測試人員: 邱韻如 / Name of the person who made measurement: Joyce Chiu 2)测試負責人: 林立翔 / Name of the person in charge of measurement: Roger Lin



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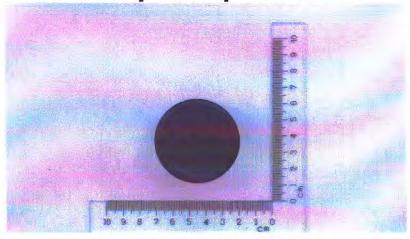


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> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

> > KA/2011/91531



** 報告結尾(End of Report) **

分灣檢驗科技股份有限公司

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Date: 01 Sep 2011

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GEJIU ZILI MINING&SMEL TING CO.,LTD HUOGUDU,JIJIE TOWN,GEJIU CITY,HONGHE ZHOU,YUNNAN PROVINCE CHINA

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

TIN

SGS Job No. : 13332781 - GZ Model No. : Sn 99.90

SGS Internal Reference No. : 2.1

Date of Sample Received : 26 Aug 2011

Testing Period : 26 Aug 2011 - 01 Sep 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 : A:Based on the performed tests on submitted samples, the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) 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.

- 1

Merry Lv

Approved Signatory



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Test Results:

ID for specimen 1 : CAN11-033404.001
Description for specimen 1 : Silvery metal block

A:RoHS Directive 2011/65/EU

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium (Cd)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	100
Lead (Pb)	mg/kg	IEC 62321:2008, ICP-OES	46	2	1000
Mercury (Hg)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	1000
Hexavalent Chromium (CrVI) by	-	IEC 62321:2008, UV-Vis	Negative	\Diamond	#
boiling water extraction					
Sum of PBBs	mg/kg		N.D.	-	1000
Monobromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Dibromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Tribromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Tetrabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Pentabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Hexabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Heptabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Octabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Nonabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Decabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Sum of PBDEs	mg/kg		N.D.	9	1000
Monobromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Dibromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Tribromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Tetrabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Pentabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Hexabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Heptabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Octabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Nonabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	
Decabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	

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Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. ♦ = 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.

Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

5. # = Positive indicates the presence of CrVI on the tested areas.

Negative indicates the absence of CrVI on the tested areas.

6. "- " = Not regulated

B:Halogen

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Fluorine (F)	mg/kg	BS EN 14582:2007, IC	N.D.	50
Chlorine (CI)	mg/kg	BS EN 14582:2007, IC	N.D.	50
Bromine (Br)	mg/kg	BS EN 14582:2007, IC	N.D.	50
lodine (I)	mg/kg	BS EN 14582:2007, IC	N.D.	50

Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

C:PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Perfluorooctanoic acid (PFOA)	mg/kg	EPA 3550C: 2007, LC-MS	N.D.	10
Perfluorooctane sulfonates (PFOS)	mg/kg	EPA 3550C: 2007, LC-MS	N.D.	10
PFOS Acid				

PFOS Metal Salt

PFOS Amide

Note:

1. mg/kg = ppm

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Julies otherwise, trateouthe results shown in this test report refer only to the sample(s) tested

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N.D. = Not Detected (< MDL)
 MDL = Method Detection Limit

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:

- (1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.
- (2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1µg /m² of the coated material.

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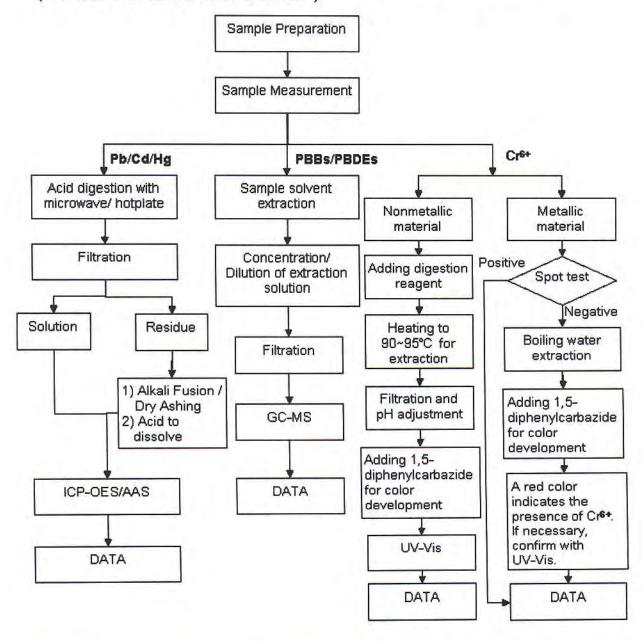
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ATTACHMENTS

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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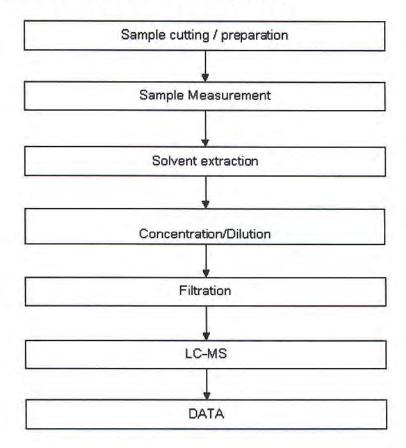
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ATTACHMENTS

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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Julius of the description of the content of the sample(s) tested.



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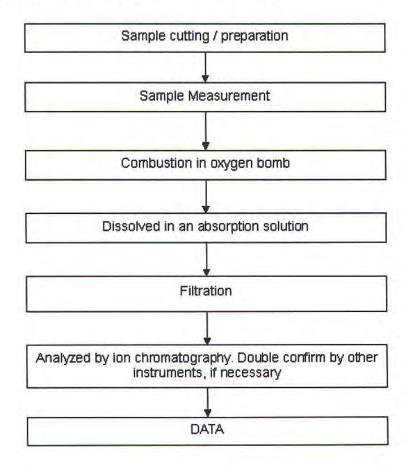
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Halogen Testing Flow Chart

- 1) Name of the person who made testing: Liang Wang
- 2) Name of the person in charge of testing: Michelle Song



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Sample photo:



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