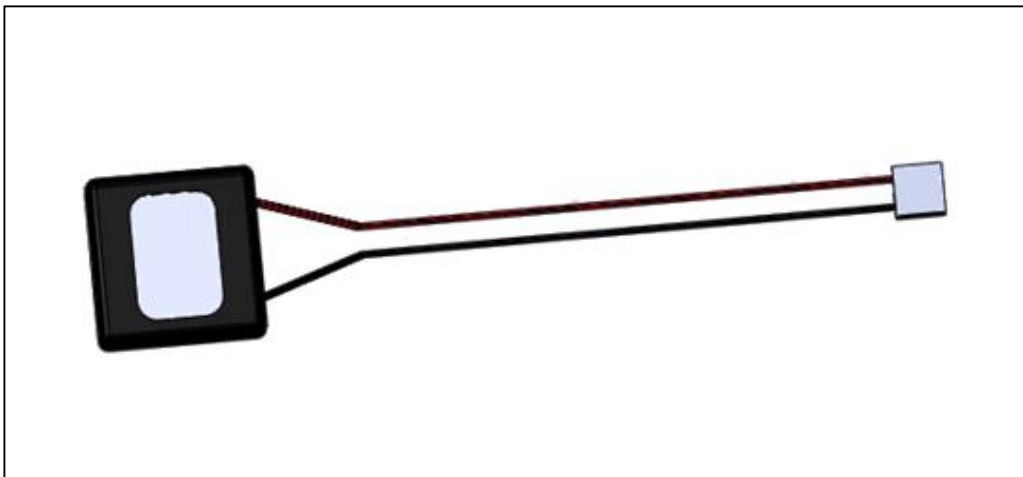


# SPECIFICATION

## BDT1717-08H6.5W56M LF





# SPECIFICATION For Dynamic Speaker

TOTAL PAGE 08

[www.bestargroups.com](http://www.bestargroups.com)

RoHS

Customer		Model Name	BDT1717-08H6.5W56M LF
Customer P/N		Product No.	132427
Date	22 May. 2014	Issue No.	BS/TES01.1317B
Page	01 of 08	Issue Date	2014/05/22

## Approval:

- 1.Description
  - 2.Characteristics
  - 3.Drawing
  - 4.Bill of Material
  - 5.Reliability Test
  - 6.Packing
  - 7.History Change Record
- Appendix A :IEC60601-1-8  
Appendix B :RoHS report

Drawn by	Checked by	Approved by	Customer approved
陈兴中	莫丽丽	徐金国	

## **BESTAR HOLDING CO.,LTD**

No.199 HuangHe West Road,New district,ChangZhou,JiangSu Province,P.R.China

**Tel:** +86 519 88222567      **Fax:** +86 519 88222551

**E-mail:**[wu@be-star.com](mailto:wu@be-star.com)      **<http://www.bestargroups.com>**

# BDT1717-08H6.5W56M LF

## 1. Description

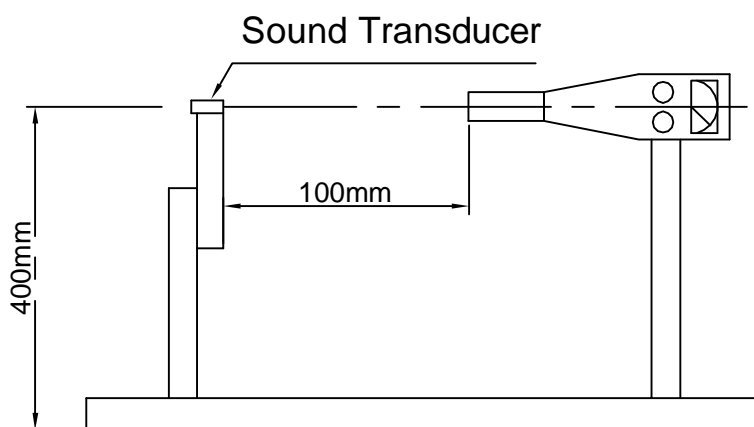
BDT1717-08H6.5W56M LF  
 BDT: BeSter Dynamic Transducer  
 08: 8-Rated Impedance

## 2. Characteristics

### 2.1. Technical Terms

No.	Item	Specifications
1-1)	Impedance (1V,800Hz)	$8 \pm 15 \% \Omega$
1-2)	Rated input power	0.5W
1-3)	Max Input	1.4W
1-4)	Frequency response	1000...4000Hz
1-5)	Sound pressure level	82±3dB at 3.3V 0-p,325±8Hz,10cm square wave
1-6)	Resonance Frequency	975 ±250 Hz
1-7)	Buzzes and Rattles	Must be normal
		sine wave 2 V
1-8)	Operating temperature	-20...+60°C

### ★ Standard Output Measurement Setup



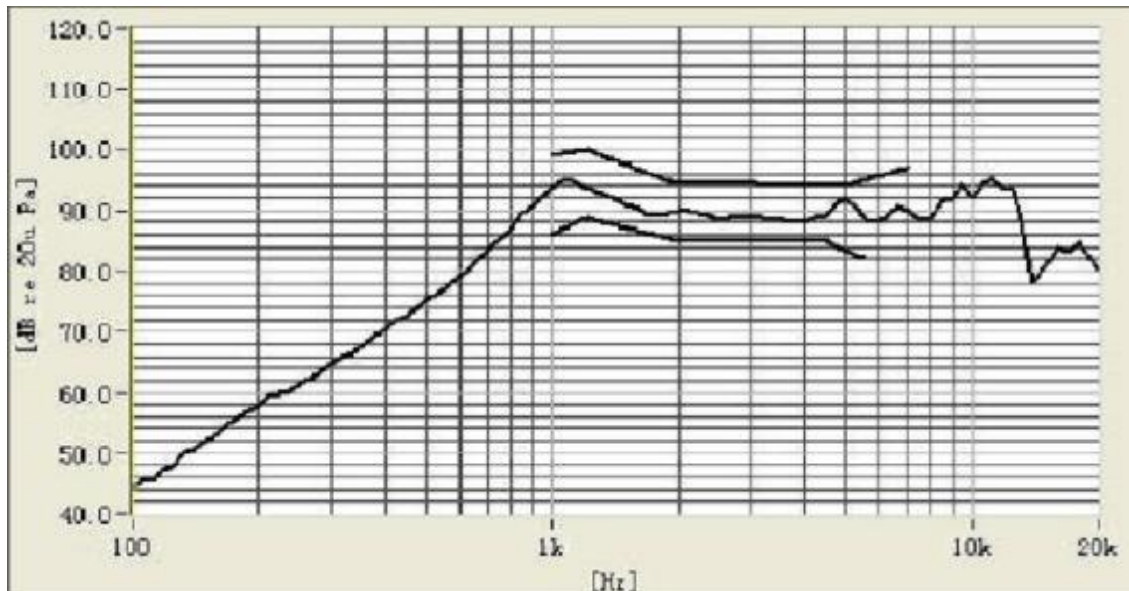
This print and information there in are proprietary to BeStar Holding Co., Ltd. and shall not be used in whole or in part without its written content.

				Date:	2014/05/22	BDT1717-08H6.5W56M LF
				Drawn by:	陈兴中	
A	B	2014/05/22	陈兴中	change wire length	Checked by:	莫丽丽
	Rev.	Date	Drawn	Note	Approved by:	徐金国
BESTAR HOLDING CO.,LTD						DRG NO: BS/TES01.1317B
www.bestargroups.com wu@be-star.com						Page:02 of 08

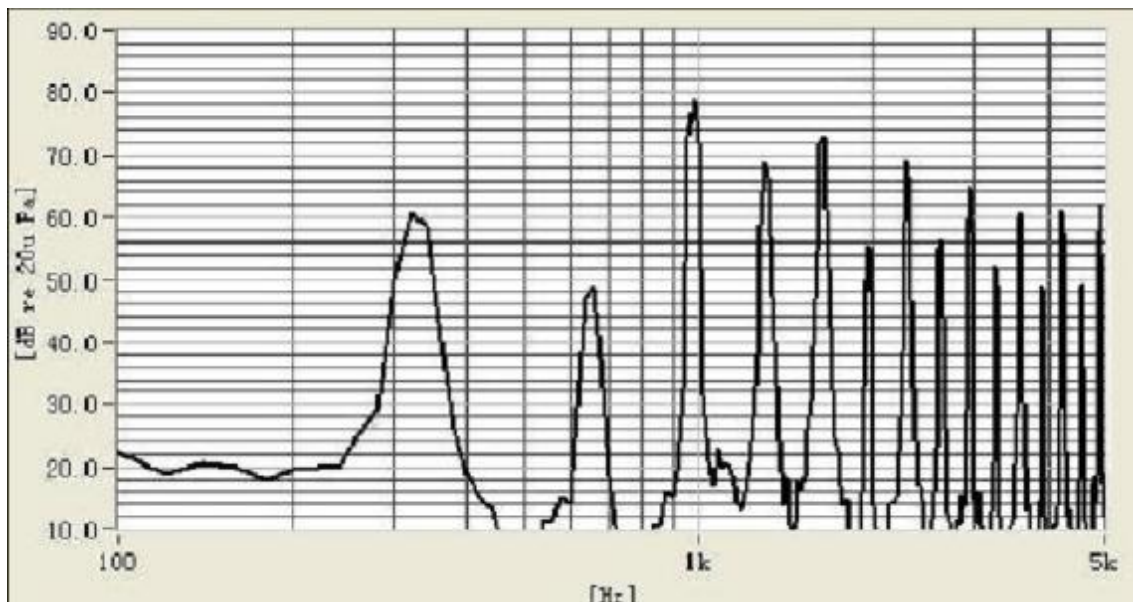
# BDT1717-08H6.5W56M LF

2.2 Fundamental ( 0.5w,0.1m soundcheck testing )

A: Frequency Response Magn 0 dB re 20.00  $\mu$ Pa/V 1/12Oct



2.3 FFT ( with 3.3V 0-p,325Hz square wave applied )



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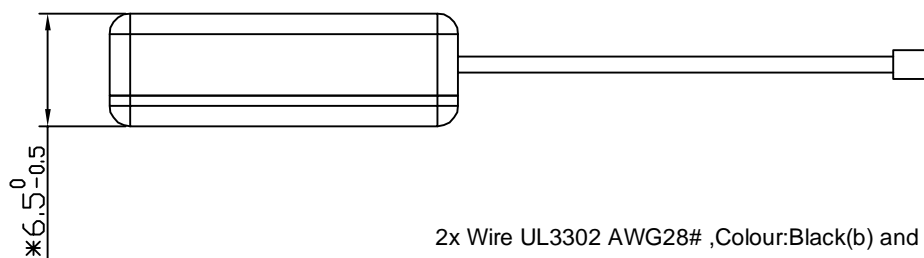
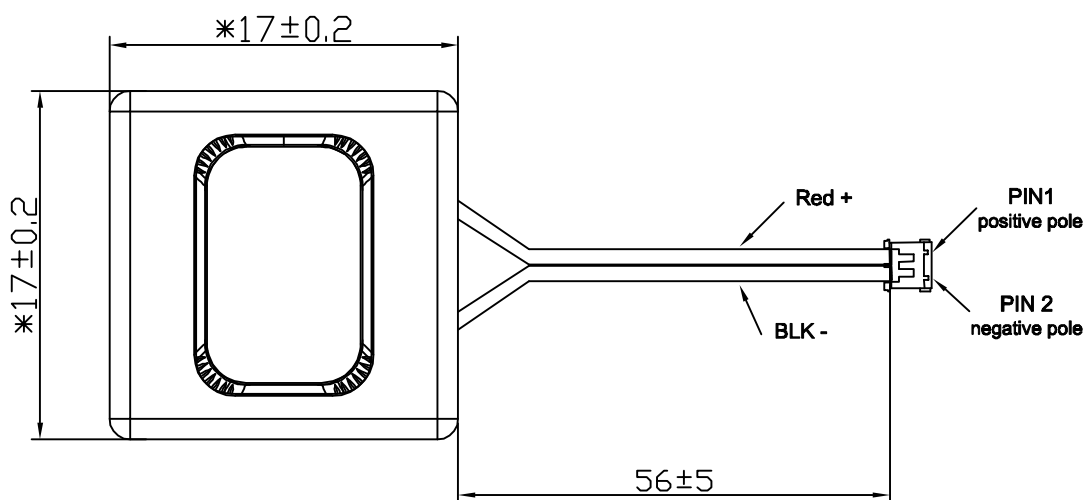
				Date:	2014/05/22	BDT1717-08H6.5W56M LF	
				Drawn by:	陈兴中		
B	2014/05/22	陈兴中	change wire lenght	Checked by:	莫丽丽	Speaker	
Rev.	Date	Drawn	Note	Approved by:	徐金国		
BESTAR HOLDING CO.,LTD						DRG NO: BS/TES01.1317B	Page:03 of 08
<a href="http://www.bestargroups.com">www.bestargroups.com</a> <a href="mailto:wu@be-star.com">wu@be-star.com</a>							



# BDT1717-08H6.5W56M LF

## 3.Drawing

Unit:mm



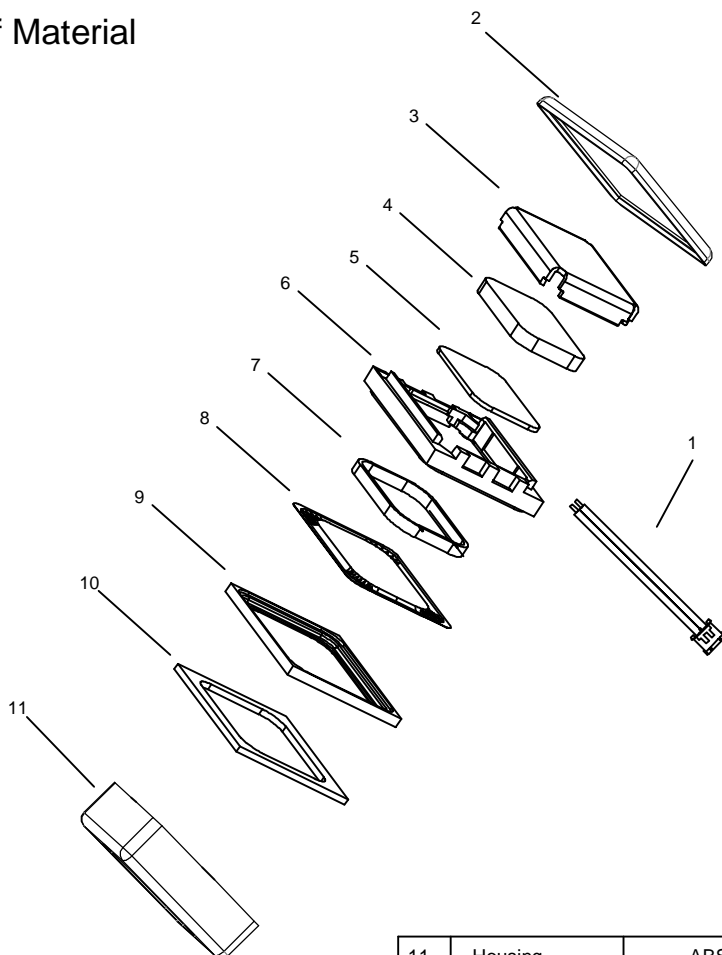
2x Wire UL3302 AWG28# ,Colour:Black(b) and red(r)  
Housing:MOLEX 51021-0200  
TERMINAL:MOLEX 50058-8000

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B	2014/05/22	陈兴中	change wire lenght	Checked by:	莫丽丽	Speaker	
REV.	Date	Drawn	Note	Approved by:	徐金国		
BESTAR HOLDING CO.,LTD						DRG NO: BS/TES01.1317B	Page:04 of 08
www.bestargroups.com wu@be-star.com							

# BDT1717-08H6.5W56M LF

## 4. Bill of Material



11	Housing	ABS(UL94-V0)
10	Foam	Poron
9	Front holder	PBT+20GF
8	Diaphragm	PEEK
7	Voice Coil	Cu
6	Frame	PPA
5	Piece	SPPC
4	Magnet	Nd-Fe-B
3	Magnet bowl	Spcc
2	Cover	ABS(UL94-V0)
1	Connect wire	Cu and PVC
No	Parts Name	Material

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				Date:	2014/05/22	BDT1717-08H6.5W56M LF	
				Drawn by:	陈兴中		
B	2014/05/22	陈兴中	change wire length	Checked by:	莫丽丽	Speaker	
Rev.	Date	Drawn	Note	Approved by:	徐金国		
BESTAR HOLDING CO.,LTD						DRG NO: BS/TES01.1317B	Page:05 of 08
www.bestargroups.com wu@be-star.com							

# BDT1717-08H6.5W56M LF

## 5. Reliability Test

### 5-1) High temperature test

Temp. +60°C  
Duration 96hrs

### 5-2) Low temperature test

Temp. -20°C  
Duration 96hrs

### 5-3) Moisture temperature test

Temp. +65°C  
Relative humidity 90...95%RH  
Duration 48hrs

### 5-4) Drop test

Height 70cm  
Direction X.Y&Z 3axis  
(Dropped in the packing to 10mm thickness wooden board)

### 5-5) Load test

0.5W,96hours

5-6) Refer to IEC60601-1-8(Appendix A )for the appropriate beeping rate that is required which depends on the priority of the alarm

After each test of 5-1 to 5-3, speakers should be measured after 2hrs exposed in normal temperature.

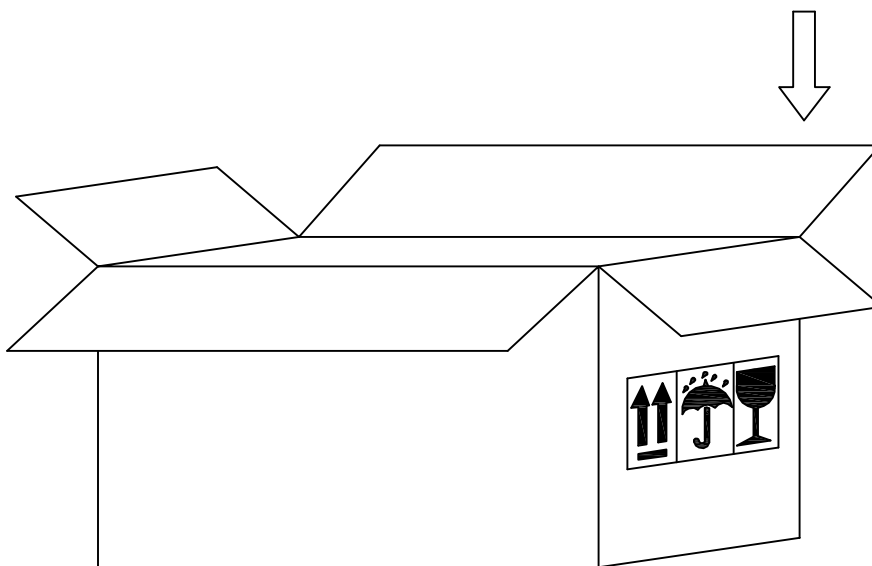
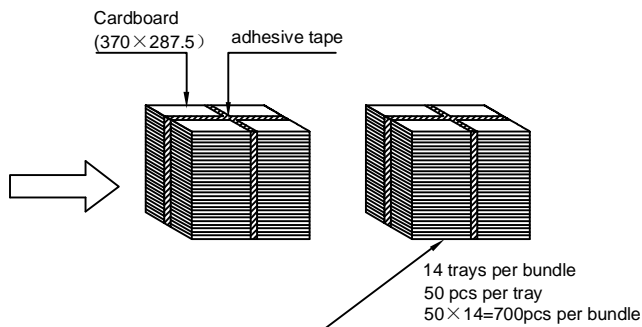
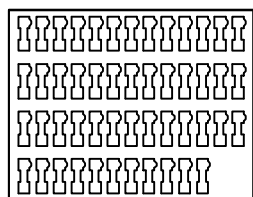
After each test, performance should be satisfied with spec.

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				Drawn by:	陈兴中		
B	2014/05/22	陈兴中	change wire lenght	Checked by:	莫丽丽	Speaker	
Rev.	Date	Drawn	Note	Approved by:	徐金国		
BESTAR HOLDING CO.,LTD						DRG NO: BS/TES01.1317B	Page:06 of 08
www.bestargroups.com wu@be-star.com							

# BDT1717-08H6.5W56M LF

## 6.Packing



Remark:  
50 pcs per tray  
14 pcs trays per bundle  
2 bundles per carton  
1400 pcs per carton  
Size: 59.5X39X21(cm)

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				Date:	2014/05/22	BDT1717-08H6.5W56M LF	
				Drawn by:	陈兴中		
B	2014/05/22	陈兴中	change wire lenght	Checked by:	莫丽丽	Speaker	
Rev.	Date	Drawn	Note	Approved by:	徐金国		
BESTAR HOLDING CO.,LTD					<a href="http://www.bestargroups.com">www.bestargroups.com</a> <a href="mailto:wu@be-star.com">wu@be-star.com</a>	DRG NO: BS/TES01.1317B	Page:07 of 08



At least one visual ALARM SIGNAL that identifies the specific ALARM CONDITION and its priority shall be provided. This signal shall be perceived correctly (be legible) at a distance of 1 m from the equipment or part of the equipment or from the OPERATOR'S POSITION. This visual indication may be text placed beside an indicator light or text on a display. The presence of an ALARM CONDITION may be visually indicated (marked) with symbol IEC 60417-5307 (2002-10) (see Symbol 1 of Table C.1). The priority may be indicated by adding one, two or three optional elements, (e.g., ! for LOW PRIORITY, !! for MEDIUM PRIORITY, and !!! for HIGH PRIORITY).

NOTE 4 Factors affecting the legibility of a visual indication include the nature and characteristics of the visual indication itself, ambient lighting in the intended environment of use, and viewing angle and distance.

NOTE 5 The use of text that flashes on and off is discouraged because it is often difficult to read. Flashing text that alternates between normal and reverse video or another colour is acceptable.

NOTE 6 Multiple-purpose computer-generated graphic displays should be designed in accordance with modern human interface design principles. Attention is drawn to IEC 60601-1-6.

NOTE 7 The identification of the ALARM CONDITION is intended to convey information necessary for PATIENT safety and safe use of the equipment.

If multiple ALARM CONDITIONS occur at the same time, each individual ALARM CONDITION shall be visually indicated, either automatically or by OPERATOR action, unless an INTELLIGENT ALARM SYSTEM is provided that prevents a lower internal rank ALARM CONDITION from generating ALARM SIGNALS when a higher internal rank ALARM CONDITION is generating or has recently generated ALARM SIGNALS (see 6.2).

Visual INFORMATION SIGNALS, if provided, shall be correctly perceived as different from visual ALARM SIGNALS at a distance of 1 m from the ALARM SYSTEM or from the OPERATOR'S POSITION.

*Compliance is checked by inspection of the visual ALARM SIGNAL under the following conditions:*

- *the OPERATOR has a visual acuity of 0 on the logMAR [17] scale or 6-6 (20/20) vision (corrected if necessary),*
- *the viewpoint is at the OPERATOR'S POSITION or at any point within the base of a cone subtended by an angle of 30° to the axis horizontal to or normal to the centre of the plane of display of the monitoring display or visual indication, and*
- *the ambient illuminance in the range [21] of 100 lx to 1 500 lx.*

### **6.3.3 \* Auditory ALARM SIGNALS**

#### **6.3.3.1 \* Characteristics of auditory ALARM SIGNALS**

An ALARM SYSTEM provided with auditory ALARM SIGNALS shall have at least one set of ALARM SIGNALS that:

- a) is priority encoded and meets the requirements of Table 3 and Table 4; or
- b) is generated by means of different technology (e.g., voice synthesizing of verbal ALARM SIGNALS) and is VALIDATED (e.g., by clinical or simulated clinical USABILITY testing).

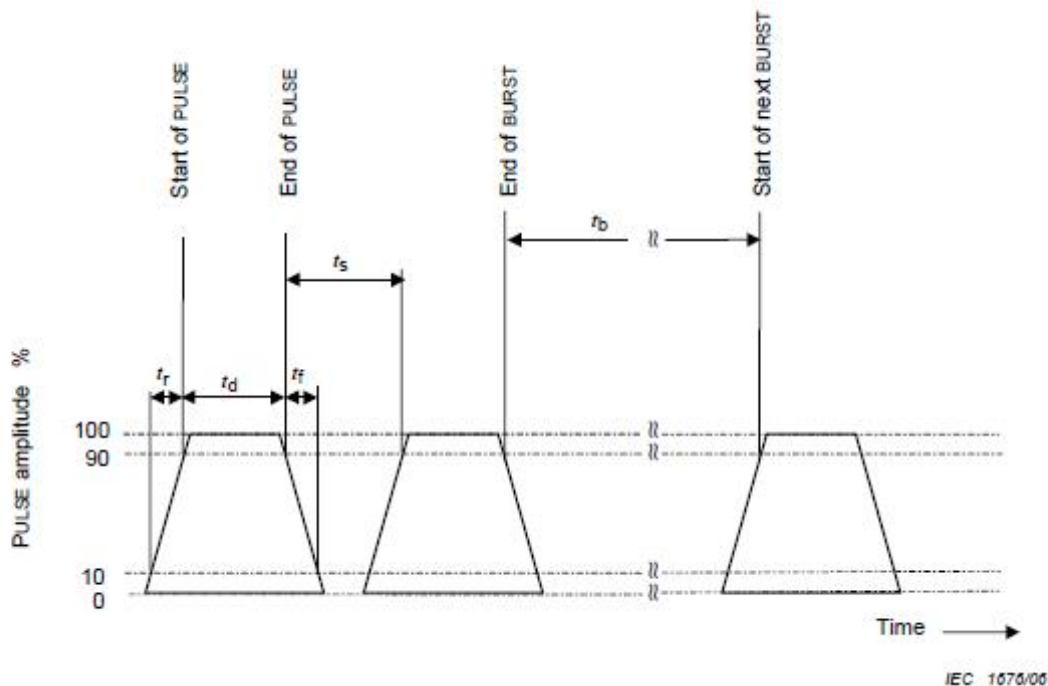


**Table 3 – \* Characteristics of the BURST of auditory ALARM SIGNALS**

Characteristic	HIGH PRIORITY ALARM SIGNAL	MEDIUM PRIORITY ALARM SIGNAL	LOW PRIORITY ALARM SIGNAL <sup>d</sup>
Number of PULSES in BURST <sup>a, e</sup>	10	3	1 or 2
PULSE spacing ( $t_s$ ) (see Figure 1)			
between 1 <sup>st</sup> and 2 <sup>nd</sup> PULSE	$x$	$y$	$y$
between 2 <sup>nd</sup> and 3 <sup>rd</sup> PULSE	$x$	$y$	Not applicable
between 3 <sup>rd</sup> and 4 <sup>th</sup> PULSE	$2x + t_d$	Not applicable	Not applicable
between 4 <sup>th</sup> and 5 <sup>th</sup> PULSE	$x$	Not applicable	Not applicable
between 5 <sup>th</sup> and 6 <sup>th</sup> PULSE	0,35 s to 1,30 s	Not applicable	Not applicable
between 6 <sup>th</sup> and 7 <sup>th</sup> PULSE	$x$	Not applicable	Not applicable
between 7 <sup>th</sup> and 8 <sup>th</sup> PULSE	$x$	Not applicable	Not applicable
between 8 <sup>th</sup> and 9 <sup>th</sup> PULSE	$2x + t_d$	Not applicable	Not applicable
between 9 <sup>th</sup> and 10 <sup>th</sup> PULSE	$x$	Not applicable	Not applicable
INTERBURST INTERVAL <sup>b, c</sup> ( $t_b$ )	2,5 s to 15,0 s	2,5 s to 30,0 s	>15 s or no repeat
Difference in amplitude between any two PULSES	Maximum 10 dB	Maximum 10 dB	Maximum 10 dB
<p>Where <math>x</math> shall be a value between 50 ms and 125 ms.            Where <math>y</math> shall be a value between 125 ms and 250 ms.            The variation of <math>x</math> and <math>y</math> within a BURST shall be <math>\pm 5\%</math>.            MEDIUM PRIORITY <math>t_d + y</math> shall be greater than or equal to HIGH PRIORITY <math>t_d + x</math>.</p>			
<p><sup>a</sup> See also Table 4 for characteristics of the PULSE.  <sup>b</sup> Unless otherwise specified in a particular standard for a particular ME EQUIPMENT.  <sup>c</sup> MANUFACTURERS are encouraged to use the longest INTERBURST INTERVAL consistent with the RISK ANALYSIS. Writers of particular standards are encouraged to consider the longest appropriate INTERBURST INTERVAL of the auditory ALARM SIGNAL for the particular ALARM SYSTEM application. Long INTERBURST INTERVALS can under certain conditions negatively affect the ability to correctly discern, in a timely manner, the source of the ALARM CONDITION.  <sup>d</sup> The generation of the auditory component of a LOW PRIORITY ALARM CONDITION is optional.  <sup>e</sup> Unless inactivated by the OPERATOR, MEDIUM PRIORITY and LOW PRIORITY auditory ALARM SIGNALS shall complete at least one BURST, and HIGH PRIORITY auditory ALARM SIGNALS shall complete at least half of one BURST.</p>			

**Table 4 – \* Characteristics of the PULSE of auditory ALARM SIGNALS**

Characteristic	Value
PULSE FREQUENCY ( $f_0$ )	150 Hz to 1 000 Hz
Number of harmonic components in the range 300 Hz to 4 000 Hz	Minimum of 4
Effective PULSE duration ( $t_d$ ) HIGH PRIORITY MEDIUM and LOW PRIORITY	75 ms to 200 ms 125 ms to 250 ms
RISE TIME ( $t_r$ )	10 % – 20 % of $t_d$
FALL TIME <sup>a</sup> ( $t_f$ )	$t_f \leq t_d - t_r$
<p>NOTE The relative sound pressure level of the harmonic components should be within 15 dB above or below amplitude at the PULSE FREQUENCY.</p>	
<p><sup>a</sup> Prevents overlap of PULSES.</p>	



NOTE Figure 1 is intended to show the designation of temporal characteristics and does not illustrate any individual auditory ALARM SIGNAL.

**Figure 1 – Illustration of temporal characteristics of auditory ALARM SIGNALS**

If the ALARM SYSTEM is additionally provided with other sets of auditory ALARM SIGNALS, the following shall apply:

- c) auditory ALARM SIGNALS shall be priority encoded;
- d) HIGH PRIORITY auditory ALARM SIGNALS of a particular set of ALARM SIGNALS shall convey a higher level of urgency than the MEDIUM OR LOW PRIORITY ALARM SIGNALS and INFORMATION SIGNALS of that ALARM SIGNAL set;
- e) MEDIUM PRIORITY auditory ALARM SIGNALS of a particular set of ALARM SIGNALS shall convey a higher level of urgency than the LOW PRIORITY ALARM SIGNALS and INFORMATION SIGNALS of that ALARM SIGNAL set;
- f) auditory ALARM SIGNALS shall be VALIDATED, e.g., by clinical or simulated clinical USABILITY testing;
- g) means shall be provided to store a set of auditory ALARM SIGNALS in the DEFAULT ALARM PRESET; and
- h) means may be provided to store a set of auditory ALARM SIGNALS in any ALARM PRESET.

NOTE 1 See also Annex D.

NOTE 2 Attention is drawn to IEC 60601-1-6.

Any melody shall preclude the possibility of confusion with the auditory ALARM SIGNALS of Table 3, Table 4 and Annex F, unless their meaning is the same. If any of the melodies of Annex F is used to meet the requirements of Table 3 and Table 4, its meanings shall be as specified in Annex F.

When a TECHNICAL ALARM CONDITION that precludes the generation of the usual ALARM SIGNALS occurs, e.g. power or ALARM SYSTEM failure, the ALARM SYSTEM may generate an auditory ALARM SIGNAL that does not comply with the above requirements.



If selection of auditory ALARM SIGNAL sets is provided, means shall be provided for the RESPONSIBLE ORGANIZATION to prevent the OPERATOR from unauthorized access to changing the auditory ALARM SIGNAL set in use (see 6.7).

*Compliance is checked by inspection and functional testing of the ALARM SYSTEM and inspection of any relevant VALIDATION documentation.*

#### **6.3.3.2 \* Volume of auditory ALARM SIGNALS and INFORMATION SIGNALS**

The auditory ALARM SIGNAL sound pressure range, as measured in accordance with this subclause, shall be disclosed in the instructions for use.

The sound pressure level of MEDIUM PRIORITY ALARM SIGNALS shall not exceed that of HIGH PRIORITY ALARM SIGNALS. If provided, the sound pressure level of LOW PRIORITY ALARM SIGNALS shall not exceed that of MEDIUM PRIORITY ALARM SIGNALS.

If auditory INFORMATION SIGNALS are provided, they shall be distinguishable from those of auditory ALARM SIGNALS and their characteristics shall be disclosed in the instructions for use.

NOTE Unless the sound pressure level of INFORMATION SIGNALS is independently adjustable, it should not exceed that of LOW PRIORITY ALARM SIGNALS.

*Compliance is checked by inspection of the instructions for use and with the following test:*

- *Place a microphone of a sound level meter complying with the requirements for a type 1 instrument as specified in IEC 60651 at the position of maximum sound pressure level in the horizontal plane passing through the geometric centre of the front of the part of the equipment that contains the auditory ALARM SIGNAL generating device at a radius of 1 m or at the OPERATOR'S POSITION. Take measurements using the frequency-weighting characteristic A and the time-weighting characteristic F on the sound level meter. The indicated sound pressure level when measuring BURSTS is corrected in accordance with Clause 7 of IEC 60651:2001 or a test PULSE of continuous duration is used for purposes of the measurement. Take measurements in a free field over a reflecting plane as specified in ISO 3744. The A-weighted background level of extraneous noise, including any INFORMATION SIGNALS, is to be at least 10 dB below that measured during the test.*
- *Simulate a HIGH PRIORITY ALARM CONDITION.*
- *Measure the sound pressure level.*
- *Repeat above with MEDIUM and LOW PRIORITY ALARM CONDITIONS.*
- *Confirm that the HIGH PRIORITY ALARM SIGNAL sound pressure level  $\geq$  MEDIUM PRIORITY ALARM SIGNAL sound pressure level  $\geq$  LOW PRIORITY ALARM SIGNAL sound pressure level.*

#### **6.3.4 \* Characteristics of verbal ALARM SIGNALS**

When applicable, the MANUFACTURER shall address in the RISK MANAGEMENT PROCESS the RISKS associated with verbal ALARM SIGNALS.

*Compliance is checked by inspection of the RISK MANAGEMENT FILE.*



## Bestar Acoustics Co.,Ltd

No.199 Huanghe West Road, new district of Changzhou, Jiangsu Province, 213022

Tel: 86-519-88222567 Fax: 86-519-88222516 [www.be-star.com](http://www.be-star.com)

### Appendix B:Test report for RoHS version of BDT1717-08H6.5W LF

The following test report from ITS /SGS shown all components which made up

BDT1717-08H6.5W LF is ROHS compliant , which contain :

部件名称 Part Name	均質材料中有毒物質含量 Hazardous Substances Concentration in Homogeneous Material (PPM)						測試報告編號 Test Report No.	測試日期 Test Date (YY-MM-DD)
	Cd	Pb	Hg	Cr6+	PBBs	PBDEs		
Housing	ND	ND	ND	ND	ND	ND	KA/2012/C1575	2013-1-2
Frame	ND	7	ND	ND	ND	ND	RLNBF000119170004C	2013-1-8
Cover	ND	5	ND	ND	ND	ND	NB2013030621	2013-2-27
Voice diaphragm	ND	ND	ND	ND	ND	ND	CE/2013/30620	2013-3-11
Enamel covered wire	ND	ND	ND	NA	ND	ND	RT12R-S4452-035-E	2012-11-9
Pole shoe	ND	ND	ND	NA	NA	NA	CANEC1215790102	2012-11-27
Magnetic bowl	ND	19	ND	NA	NA	NA	CANEC1215790102	2012-11-27
Magnet steel	ND	ND	ND	ND	ND	ND	RLNBE000114530001	2012-12-12
PIN	ND	19	ND	NA	ND	ND	RLSHF001378190001	2013-2-25
Wire	ND	ND	ND	ND	ND	ND	SHAEC1314394508	2013-7-24
Copper wire	ND	ND	ND	NA	ND	ND	SHAEC1217237007A01	2012-10-11
Glue-01	ND	ND	ND	ND	ND	ND	CANEC1213733801	2012-10-18
Glue-02	ND	ND	ND	ND	ND	ND	CE/2013/16820	2013-2-7
Glue-03	ND	ND	ND	ND	ND	ND	CE/2012/A354613	2012-11-9
Glue-04	ND	ND	ND	ND	ND	ND	CE/2013/16820	2013-2-7

Signature: Li zhenzhen

Date: 2013-9-18



# SGS



## Test Report

No. SHAEC1314394508

Date: 24 Jul 2013

Page 1 of 6

SHANGHAI TOPCOLOR PLASTICS TECHNOLOGY CO.,LTD  
NO.2698 CHUANSHA R.D.SHANGHAI P.R.C

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

SGS Job No. : SP13-021533 - SH  
Date of Sample Received : 22 Jul 2013  
Testing Period : 22 Jul 2013 - 24 Jul 2013  
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 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.

JJ Fan  
Approved Signatory

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Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.



SGS (Société Générale de Surveillance) Shanghai Co. Ltd  
Testing Laboratory  
3<sup>rd</sup> Building, 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

T E&E (86-21) 61402553 T E&E (86-21) 64953679 www.cn.sgs.com  
HL: (86-21) 61402594 HL: (86-21) 64500353 # sgs.china@sgs.com

Member of the SGS Group (SGS SA)



# Test Report

No. SHAEC1314394508

Date: 24 Jul 2013

Page 2 of 6

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA13-143945.008	Red solid pellet

Remarks :

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

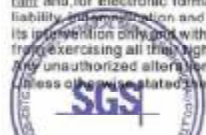
## RoHS Directive 2011/65/EU

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.

Test Item(s)	Limit	Unit	MDL	008
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	2	ND
Sum of PBBs	1000	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	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Testing Laboratory

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# SGS



## Test Report

No. SHAEC1314394508

Date: 24 Jul 2013

Page 3 of 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</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 directive 2011/65/EU, Annex II

### Halogen

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

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

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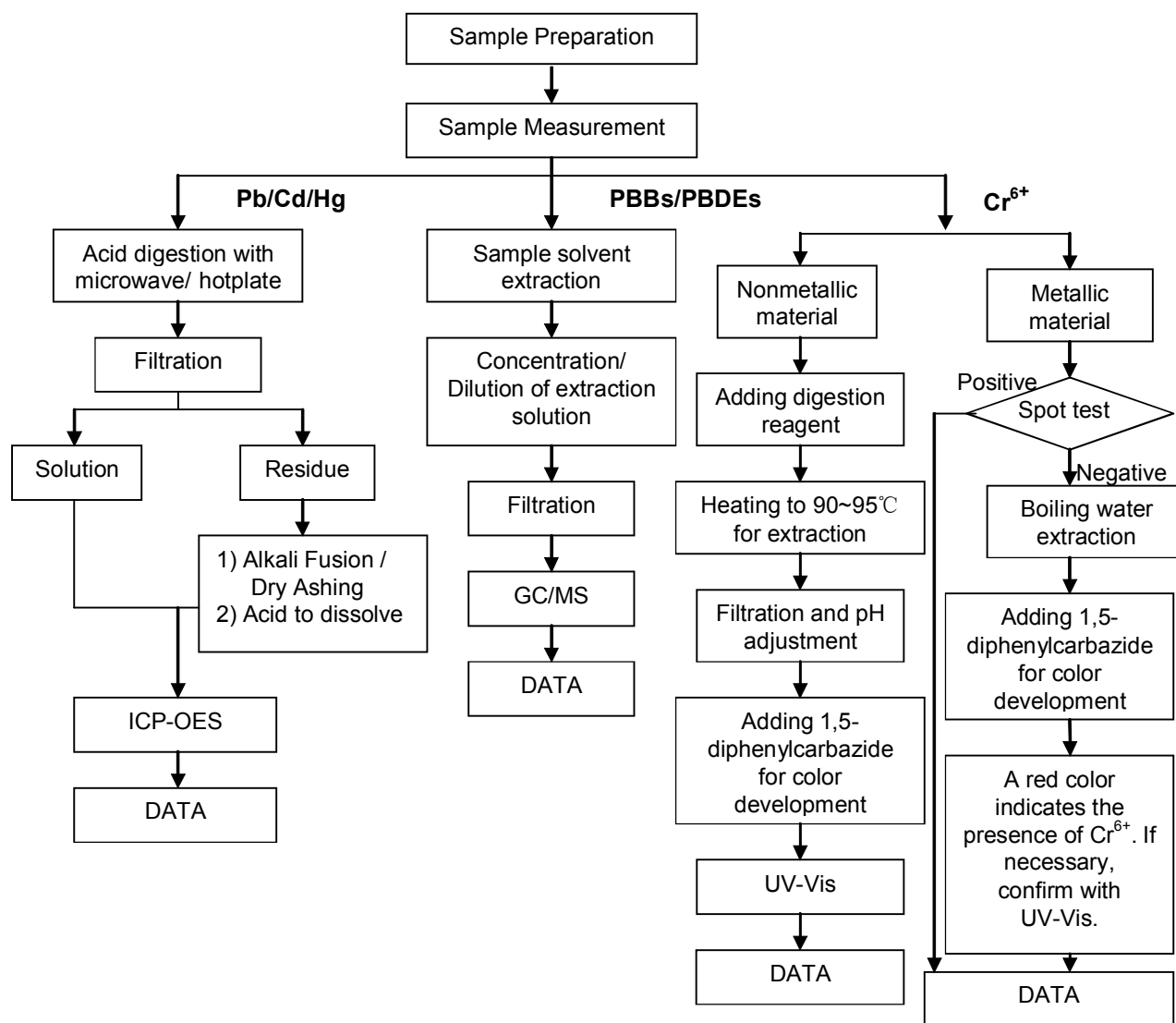
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Jan Shi/Star Wang/Shara Wang/Gary Xu
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu/ Linda Li
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded)



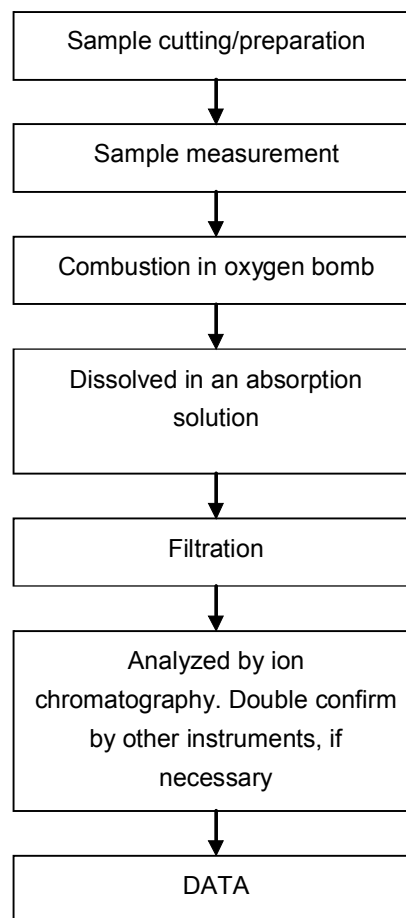
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## Halogen Testing (oxygen bomb) Flow Chart

- 1) Name of the person who made testing: Sisily Yin
- 2) Name of the person in charge of testing: Linda Li



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# SGS



## Test Report

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Date: 24 Jul 2013

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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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SGS S.T. Standards Technical Services (Shanghai) Co., Ltd.  
Testing Laboratory

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# Test Report

No. : KA/2012/C1575

Date : 2013/01/02

Page: 1 of 6

CHI-MEI CORPORATION  
59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

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

Sample Description : ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER  
 Style/Item No. : POLYLAC<sup>2</sup> PA-757  
 Sample Receiving Date : 2012/12/20  
 Testing Period : 2012/12/20 TO 2013/01/02  
 Sample Submitted By : CHI-MEI CORPORATION

**Test Requested** : 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.

**Test Method** : With reference to IEC 62321: 2008.

**Test Result(s)** : Please refer to next page(s).

**Conclusion** : Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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



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CHI-MEI CORPORATION  
59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

## Test Result(s)

PART NAME No.1 : NATURE ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER

Test Item(s)	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
Monobromobiphenyl	mg/kg		5	n.d.	-
Dibromobiphenyl	mg/kg		5	n.d.	-
Tribromobiphenyl	mg/kg		5	n.d.	-
Tetrabromobiphenyl	mg/kg		5	n.d.	-
Pentabromobiphenyl	mg/kg		5	n.d.	-
Hexabromobiphenyl	mg/kg		5	n.d.	-
Heptabromobiphenyl	mg/kg		5	n.d.	-
Octabromobiphenyl	mg/kg		5	n.d.	-
Nonabromobiphenyl	mg/kg		5	n.d.	-
Decabromobiphenyl	mg/kg		5	n.d.	-
<b>Sum of PBDEs</b>	mg/kg		-	n.d.	1000
Monobromodiphenyl ether	mg/kg		5	n.d.	-
Dibromodiphenyl ether	mg/kg		5	n.d.	-
Tribromodiphenyl ether	mg/kg		5	n.d.	-
Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
Pentabromodiphenyl ether	mg/kg		5	n.d.	-
Hexabromodiphenyl ether	mg/kg		5	n.d.	-
Heptabromodiphenyl ether	mg/kg		5	n.d.	-
Octabromodiphenyl ether	mg/kg		5	n.d.	-
Nonabromodiphenyl ether	mg/kg	5	n.d.	-	
Decabromodiphenyl ether	mg/kg	5	n.d.	-	

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CHI-MEI CORPORATION  
59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

## Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit

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# Test Report

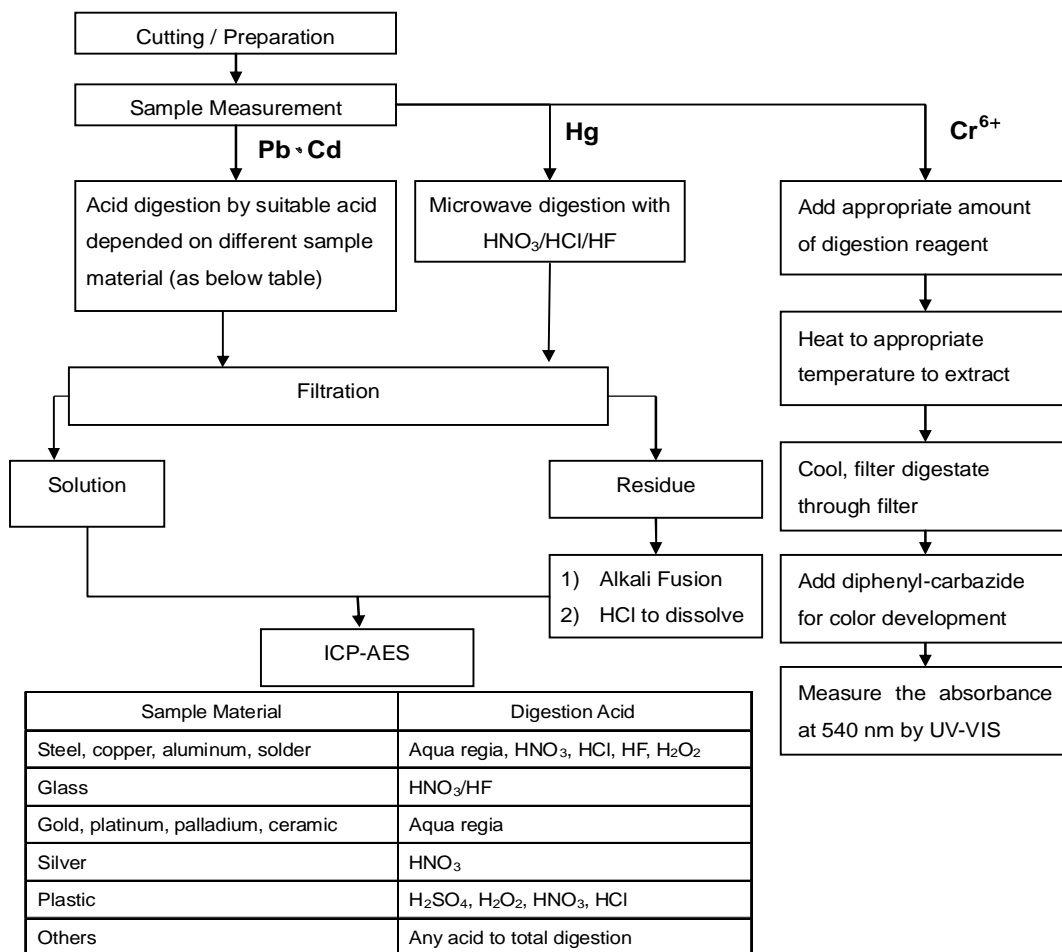
No. : KA/2012/C1575

Date : 2013/01/02

Page: 4 of 6

CHI-MEI CORPORATION  
59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. : Cr<sup>6+</sup> test method excluded
- 2) Name of the person who made measurement: Alex Chang
- 3) Name of the person in charge of measurement: Ray Chang



**Note\*\* :** (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 °C.  
(2) For metallic material, add pure water and heat to boiling.

# Test Report

No. : KA/2012/C1575

Date : 2013/01/02

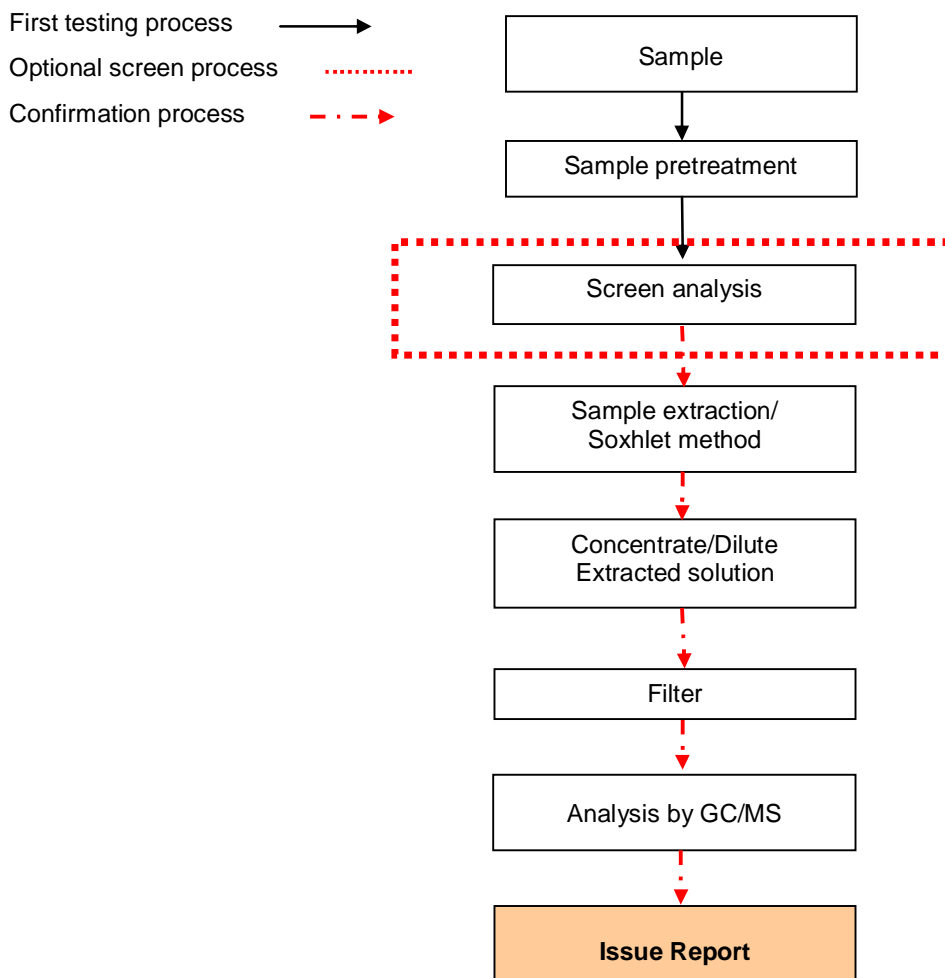
Page: 5 of 6

CHI-MEI CORPORATION  
59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

## PBB/PBDE analytical FLOW CHART

1) Name of the person who made measurement: Anson Tsao

2) Name of the person in charge of measurement: Ray Chang



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# Test Report

No. : KA/2012/C1575

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CHI-MEI CORPORATION  
59-1, SAN CHIA, JEN TE, TAINAN CITY 71702, TAIWAN

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

## KA/2012/C1575



\*\* End of Report \*\*



# Test Report

No. : CE/2013/30620 Date : 2013/03/11 Page : 1 of 12

DONGGUAN KOU RYOU ELECTRONICS CO., LTD.  
UNIT B, 13/F TOWER B, PEACE SQUARE, SHENGHE ROAD, NANCHENG DISTRICT, DONGGUAN CITY,  
GUANGDONG, CHINA.



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

Applicant	: GOOD STONE TRADING COMPANY(AGENCY OF FERROTEC CORP)
Sample Description	: APTIV TM FILM(VICTREX®PEEK)
Style/Item No.	: 2000 SERIES & 1000 SERIES(THICKNESS:0.005mm, 0.006mm, 0.008mm, 0.009mm, 0.012mm, 0.016mm, 0.018mm, 0.020mm, 0.025mm, 0.030mm, 0.038mm, 0.050mm, 0.075mm, 0.100mm, 0.125mm)
Sample Receiving Date	: 2013/03/04
Testing Period	: 2013/03/04 TO 2013/03/11

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

  
Chenyu Kung  
Signed for and on behalf of  
SGS TAIWAN  
Chemical Laboratory – Taipei


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## Test Report

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DONGGUAN KOU RYOU ELECTRONICS CO., LTD.   
UNIT B, 13/F TOWER B, PEACE SQUARE, SHENGHE ROAD, NANCHENG DISTRICT, DONGGUAN CITY,  
GUANGDONG, CHINA.

### Test Result(s)

PART NAME No.1 : TRANSLUCENT-BROWN PLASTIC FILM

Test Item(s)	Unit	Method	MDL	Result
				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.
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B. Analysis was performed by ICP-AES.	2	n.d.
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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DONGGUAN KOU RYOU ELECTRONICS CO., LTD.

UNIT B, 13/F TOWER B, PEACE SQUARE, SHENGHE ROAD, NANCHENG DISTRICT, DONGGUAN CITY, GUANGDONG, CHINA.



Test Item(s)	Unit	Method	MDL	Result No. 1
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3540C: 1996. Analysis was performed by LC/MS.	10	n.d.
PFOA (CAS No.: 335-67-1)	mg/kg	With reference to US EPA 3540C: 1996. Analysis was performed by LC/MS.	10	n.d.
<b>Sum of PBBs</b>			-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
<b>Sum of PBDEs</b>			-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.

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# SGS

## Test Report

No. : CE/2013/30620 Date : 2013/03/11 Page : 4 of 12

DONGGUAN KOU RYOU ELECTRONICS CO., LTD.  
UNIT B, 13/F TOWER B, PEACE SQUARE, SHENGHE ROAD, NANCHENG DISTRICT, DONGGUAN CITY,  
GUANGDONG, CHINA.



Test Item(s)	Unit	Method	MDL	Result
				No.1
<b>Halogen</b>				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	987
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.

### Note :

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

### PFOS Reference Information : POPs - (EU) 757/2010

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 1µg/m<sup>2</sup>.

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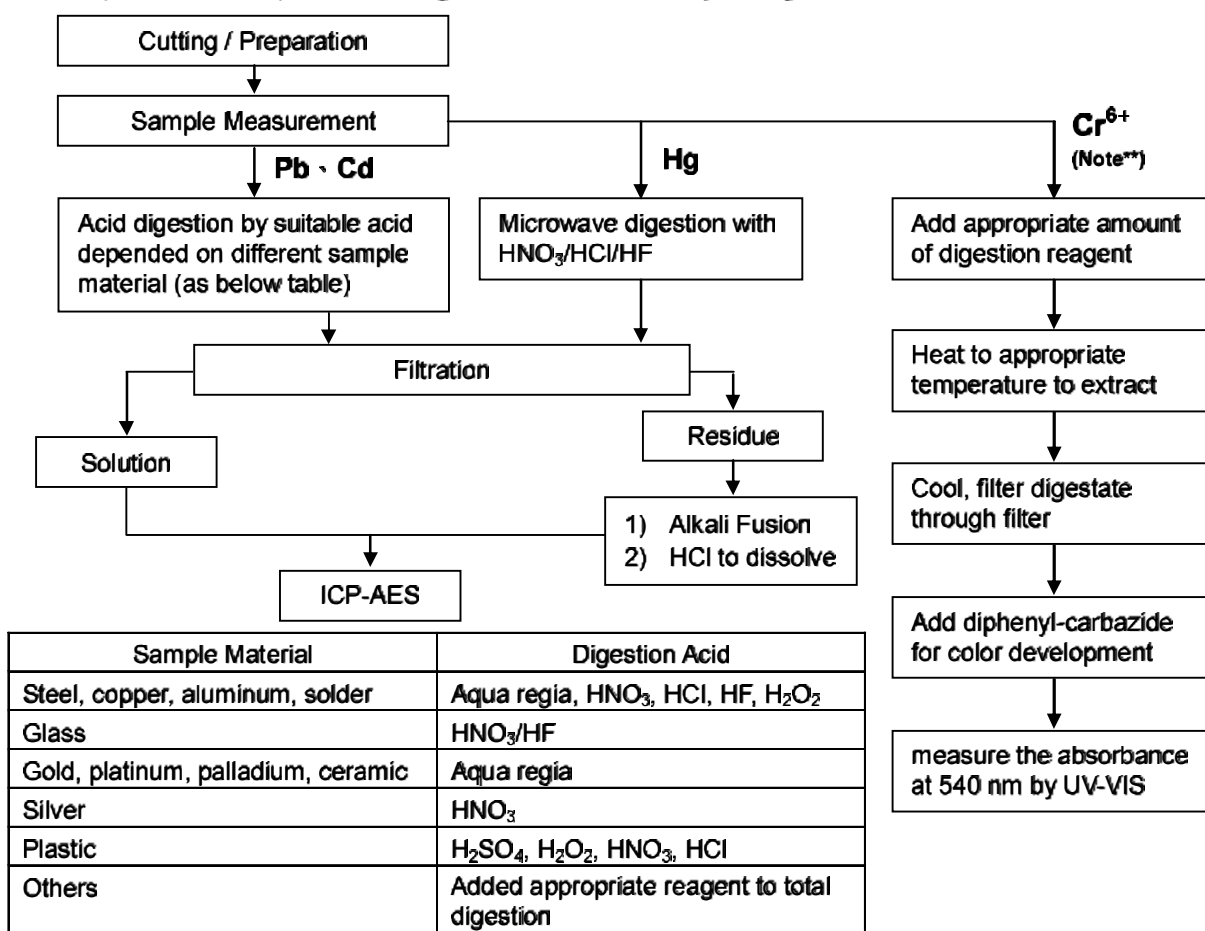
## Test Report

No. : CE/2013/30620 Date : 2013/03/11 Page : 5 of 12

DONGGUAN KOU RYOU ELECTRONICS CO., LTD.  
UNIT B, 13/F TOWER B, PEACE SQUARE, SHENGHE ROAD, NANCHENG DISTRICT, DONGGUAN CITY,  
GUANGDONG, CHINA.



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



**Note\*\* :** (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.  
(2) For metallic material, add pure water and heat to boiling.

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# Test Report

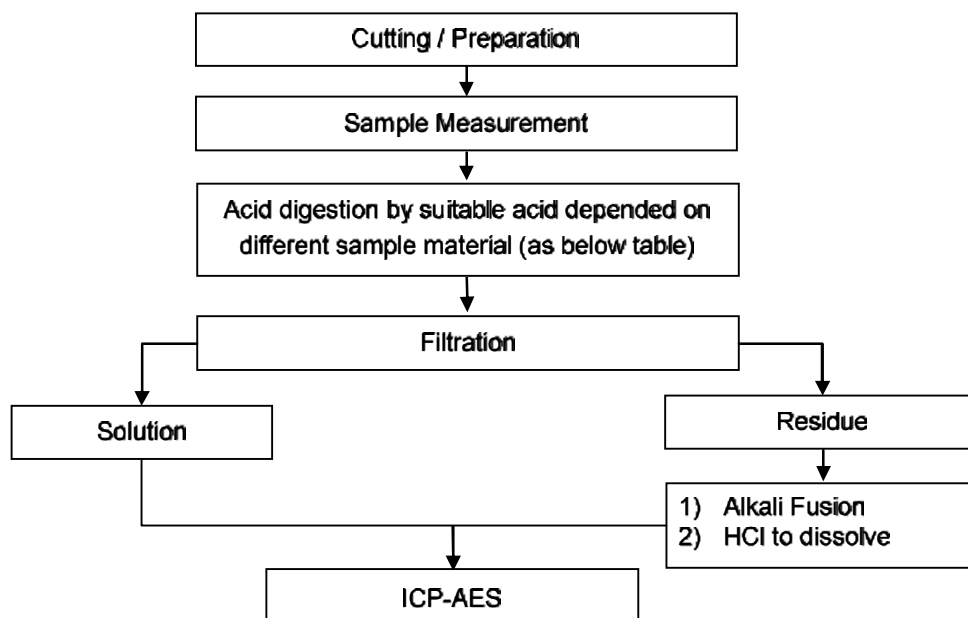
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DONGGUAN KOU RYOU ELECTRONICS CO., LTD.  
 UNIT B, 13/F TOWER B, PEACE SQUARE, SHENGHE ROAD, NANCHENG DISTRICT, DONGGUAN CITY,  
 GUANGDONG, CHINA.



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

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



Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Added appropriate reagent to total digestion

# Test Report

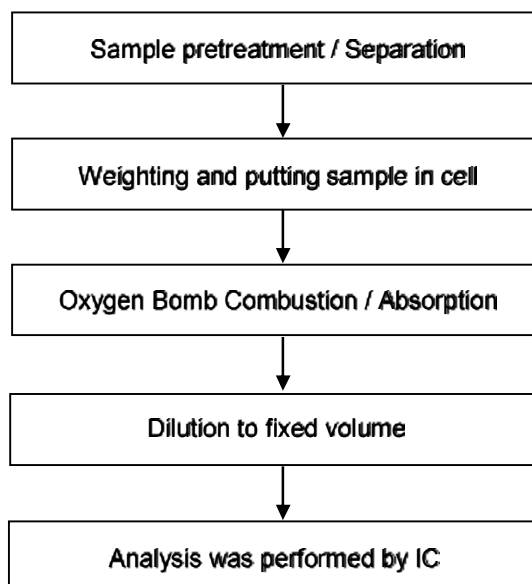
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DONGGUAN KOU RYOU ELECTRONICS CO., LTD.  
UNIT B, 13/F TOWER B, PEACE SQUARE, SHENGHE ROAD, NANCHENG DISTRICT, DONGGUAN CITY,  
GUANGDONG, CHINA.



## Analytical flow chart of halogen content

- Name of the person who made measurement: Rita Chen
- Name of the person in charge of measurement: Troy Chang



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# Test Report

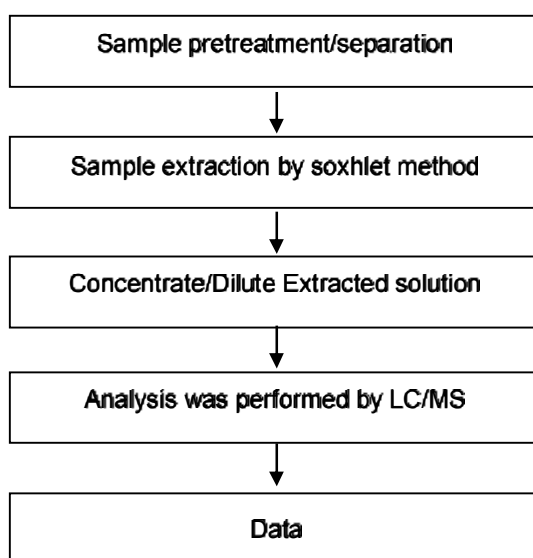
No. : CE/2013/30620 Date : 2013/03/11 Page : 8 of 12

DONGGUAN KOU RYOU ELECTRONICS CO., LTD.  
UNIT B, 13/F TOWER B, PEACE SQUARE, SHENGHE ROAD, NANCHENG DISTRICT, DONGGUAN CITY,  
GUANGDONG, CHINA.



## PFOS/PFOA analytical flow chart of Soxhlet extraction (LC/MS) procedure

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



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# Test Report

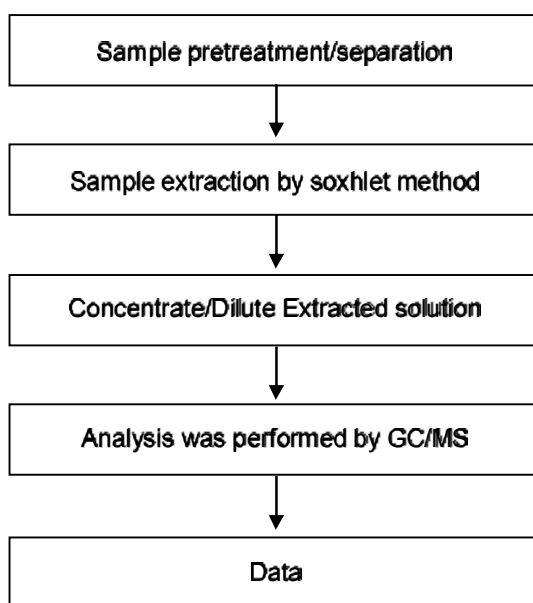
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DONGGUAN KOU RYOU ELECTRONICS CO., LTD.  
UNIT B, 13/F TOWER B, PEACE SQUARE, SHENGHE ROAD, NANCHENG DISTRICT, DONGGUAN CITY,  
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## Analytical flow chart of phthalate content

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



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# Test Report

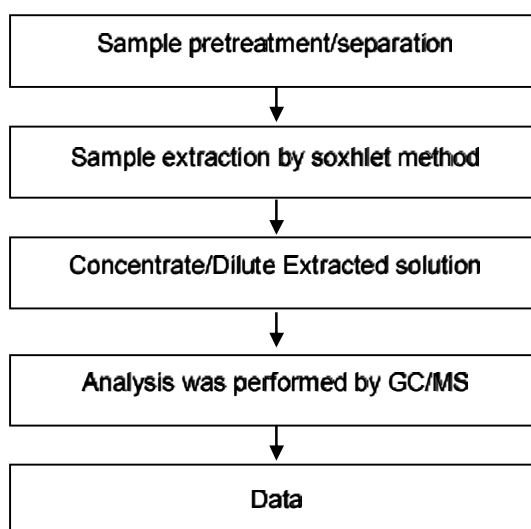
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DONGGUAN KOU RYOU ELECTRONICS CO., LTD.  
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## HBCDD analytical flow chart

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



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# Test Report

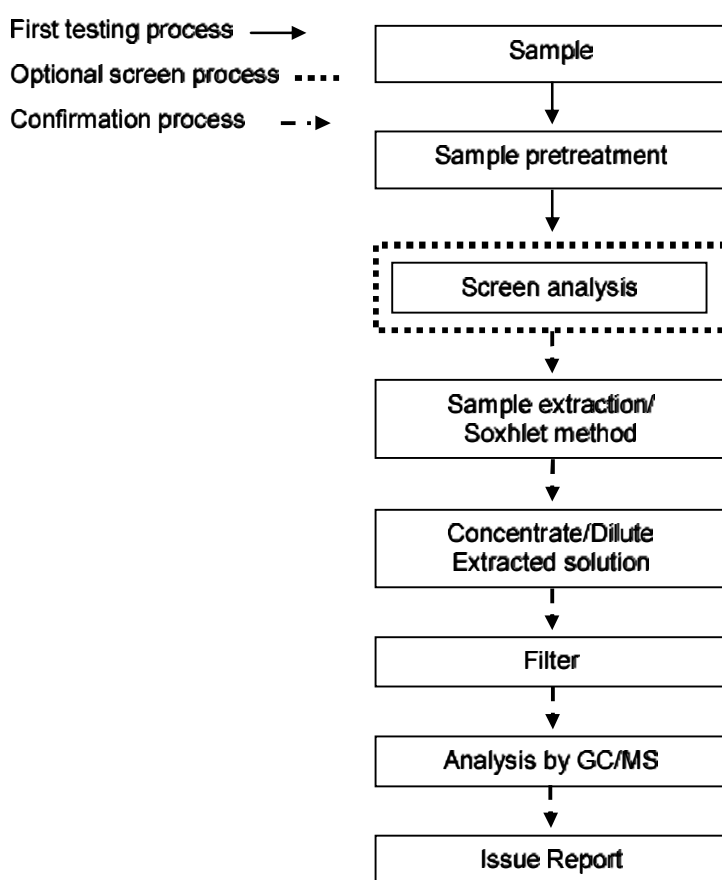
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DONGGUAN KOU RYOU ELECTRONICS CO., LTD.  
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 GUANGDONG, CHINA.



## PBB/PBDE analytical FLOW CHART

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



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# SGS

## Test Report

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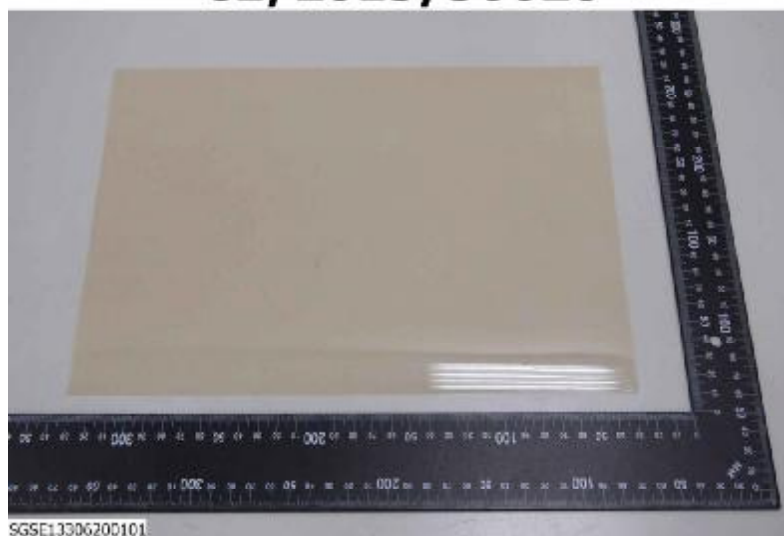
DONGGUAN KOU RYOU ELECTRONICS CO., LTD.



UNIT B, 13/F TOWER B, PEACE SQUARE, SHENGHE ROAD, NANCHENG DISTRICT, DONGGUAN CITY,  
GUANGDONG, CHINA.

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

### CE/2013/30620



**\*\* End of Report \*\***

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# 检测报告

报告编号 RLNBF000119170004C

第 1 页 共 6 页

申请单位 嘉善康达斯电子有限公司

地 址 浙江省嘉善县干窑镇亭耀东路36号

以下测试之样品及样品信息由申请者提供并确认

样品名称 PPA塑料粒子

样品型号 AS4133HS

样品批号 20130105

颜色 黑色

材料名称 PPA

样品接收日期 2013. 01. 08

样品检测日期 2013. 01. 08—2013. 01. 11

**检测要求** 根据客户要求，对所提交样品中的铅(Pb)，镉(Cd)，汞(Hg)，六价铬(Cr(VI))，多溴联苯(PBBs)，多溴二苯醚(PBDEs)，氟(F)，氯(Cl)，溴(Br)，碘(I)进行测试。

**检测依据** 请参见下页。

**检测结果** 请参见下页。

主 检

陈 沙



审 核

缪 伟

批 准

陈 寒

日 期

2013. 01. 11

陈寒

授权签字人

No.13431972

宁波市华测检测技术有限公司

浙江省宁波市高新区创苑路 750 号 A 座 7-8 楼





# 检测报告

报告编号 RLNBF000119170004C

第 2 页 共 6 页

## 检测依据

测试项目	测试方法	测试仪器	方法检测限
铅(Pb)	IEC 62321:2008 Ed.1 Sec. 8	ICP-OES	2 mg/kg
镉(Cd)	IEC 62321:2008 Ed.1 Sec. 8	ICP-OES	2 mg/kg
汞(Hg)	IEC 62321:2008 Ed.1 Sec. 7	ICP-OES	2 mg/kg
六价铬(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	2 mg/kg
多溴联苯(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
多溴二苯醚(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
氟(F)	参考BS EN 14582:2007	IC	10 mg/kg
氯(Cl)	参考BS EN 14582:2007	IC	10 mg/kg
溴(Br)	参考BS EN 14582:2007	IC	10 mg/kg
碘(I)	参考BS EN 14582:2007	IC	10 mg/kg

## 检测结果

测试项目	结果
铅(Pb)	7 mg/kg
镉(Cd)	N. D.
汞(Hg)	N. D.
六价铬(Cr(VI))	N. D.
测试项目	结果
多溴联苯(PBBs)	
一溴联苯	N. D.
二溴联苯	N. D.
三溴联苯	N. D.
四溴联苯	N. D.
五溴联苯	N. D.
六溴联苯	N. D.
七溴联苯	N. D.
八溴联苯	N. D.
九溴联苯	N. D.
十溴联苯	N. D.



# 检测报告

报告编号 RLNBF000119170004C

第 3 页 共 6 页

测试项目	结果
<b>多溴二苯醚 (PBDEs)</b>	
一溴二苯醚	N. D.
二溴二苯醚	N. D.
三溴二苯醚	N. D.
四溴二苯醚	N. D.
五溴二苯醚	N. D.
六溴二苯醚	N. D.
七溴二苯醚	N. D.
八溴二苯醚	N. D.
九溴二苯醚	N. D.
十溴二苯醚	N. D.
测试项目	结果
<b>卤素</b>	
氟 (F)	N. D.
氯 (Cl)	N. D.
溴 (Br)	N. D.
碘 (I)	N. D.

测试样品/部位描述 黑色塑料颗粒

注释: 对于检测铅, 镉, 汞之样品已完全溶解。

-N.D. = 未检出 (小于方法检测限)

-mg/kg = ppm = 百万分之几

备注: 报告编号中“C”表示此报告为中文版本。



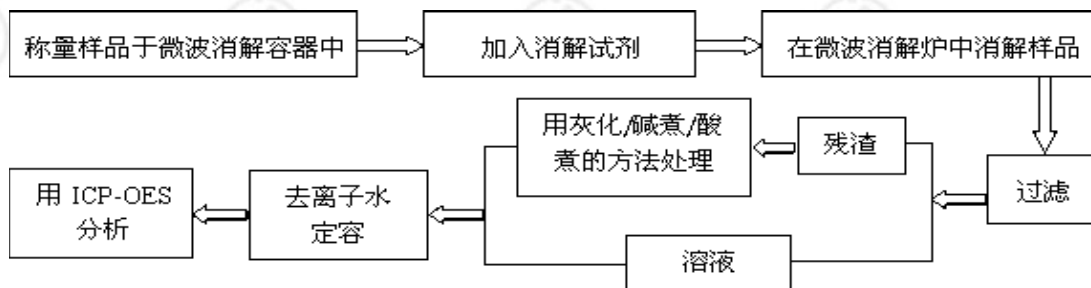
# 检测报告

报告编号 RLNBF000119170004C

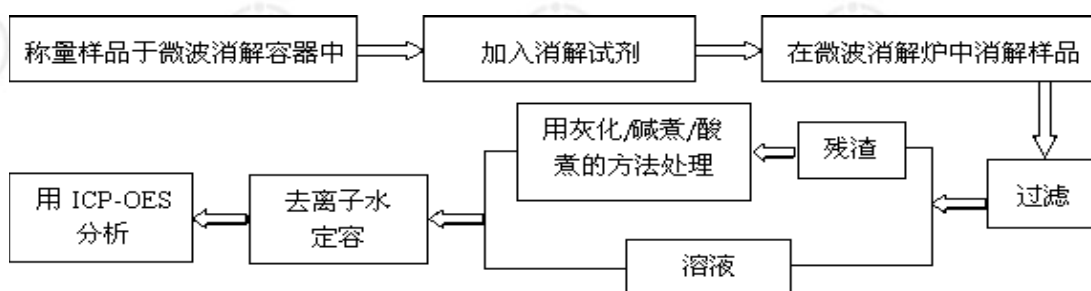
第 4 页 共 6 页

## 检测流程

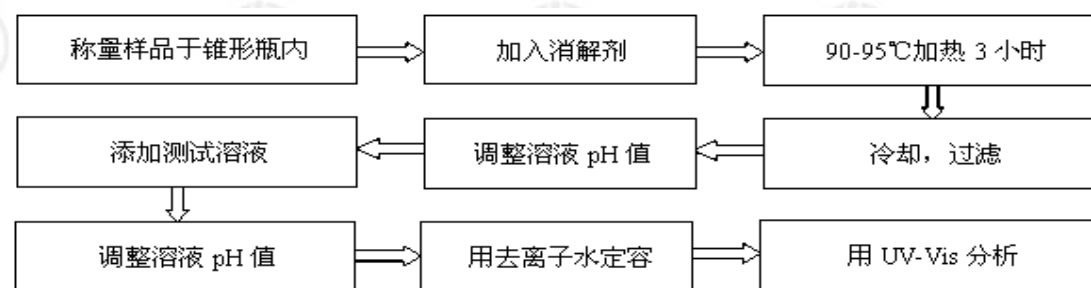
### 1. 铅(Pb), 镉(Cd)



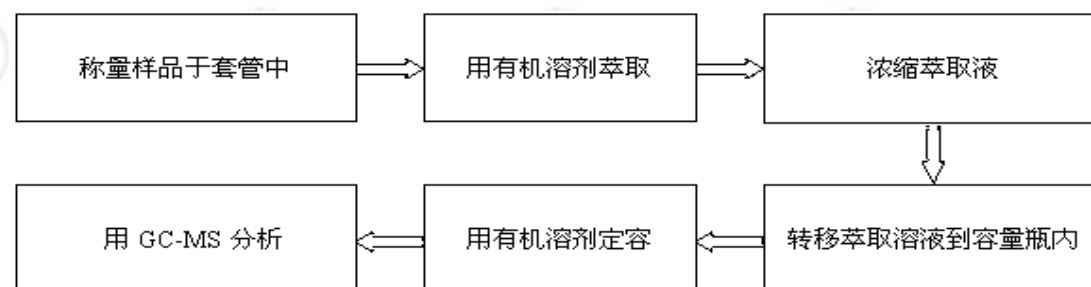
### 2. 汞(Hg)



### 3. 六价铬(Cr(VI))



### 4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)





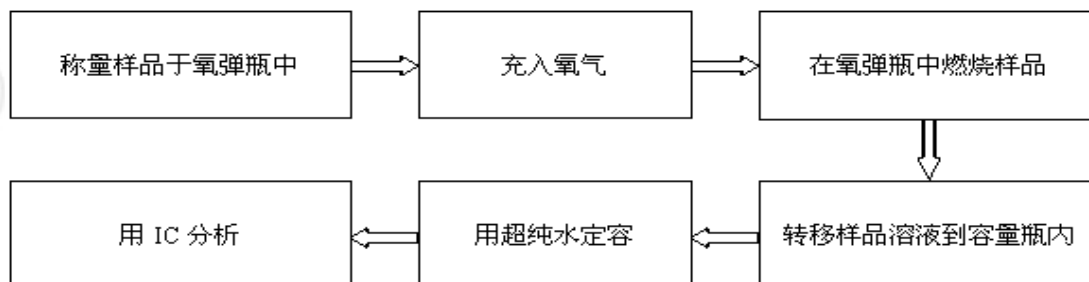


# 检测报告

报告编号 RLNBF000119170004C

第 5 页 共 6 页

## 5. 氟(F), 氯(Cl), 溴(Br), 碘(I)





# 检测报告

报告编号 RLNBF000119170004C

第 6 页 共 6 页

## 样品图片



\*\*\*报告结束\*\*\*

检测报告无批准人签字及“报告专用章”无效，本报告检测结果仅对受测样品负责。未经CTI书面同意，不得部分复制本报告。





# SGS



## Test Report

No. SHAEC1217237007 A01

Date: 11 Oct 2012

Page 1 of 4

JCC COPPER PRODUCTS COMPANY LIMITED  
NO.15 YEJIN ROAD, GUIXI CITY JIANGXI PROVINCE

### THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAEC1217237003 DATE: 2012/10/10

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

SGS Job No. : SP12-028961 - SH  
Model No. : TXR  $\Phi$ 0.16  
Composition : Cu, Sn  
Sample May Cover :  $\Phi$ 0.04、 $\Phi$ 0.05、 $\Phi$ 0.06、 $\Phi$ 0.07、 $\Phi$ 0.08、 $\Phi$ 0.09、 $\Phi$ 0.098、 $\Phi$ 0.10、 $\Phi$ 0.11、 $\Phi$ 0.12、 $\Phi$ 0.127、 $\Phi$ 0.14、 $\Phi$ 0.15、 $\Phi$ 0.178、 $\Phi$ 0.18、 $\Phi$ 0.20、 $\Phi$ 0.24、 $\Phi$ 0.25、 $\Phi$ 0.254、 $\Phi$ 0.26、 $\Phi$ 0.30、 $\Phi$ 0.32、 $\Phi$ 0.40、 $\Phi$ 0.50  
Date of Sample Received : 29 Sep 2012  
Testing Period : 29 Sep 2012 - 10 Oct 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 : 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.

Fan Jingjie, JJ  
Approved Signatory

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SGS (Shanghai) Technical Services (Shanghai) Co., Ltd.  
Testing Centre (Shanghai) Laboratory

3<sup>rd</sup> Building, 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

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# Test Report

No. SHAEC1217237007 A01

Date: 11 Oct 2012

Page 2 of 4

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA12-172370.002	Sliver 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 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	Result
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	-	-	◇	Negative

Notes :

- (1) The maximum permissible limit is quoted from 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 cm<sup>2</sup> 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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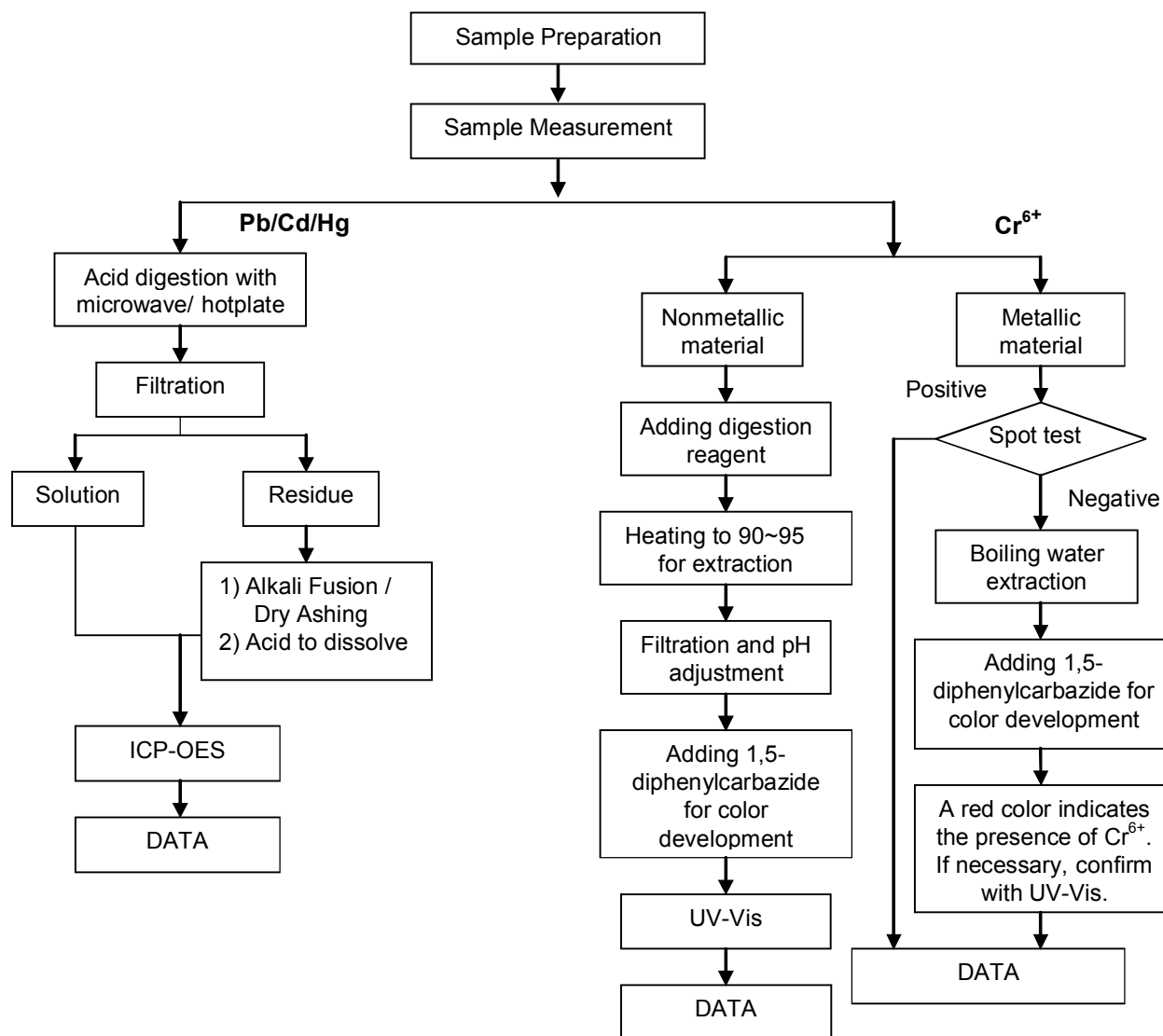
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### ATTACHMENTS

### RoHS Testing Flow Chart

- 1) Name of the person who made testing: Jan Shi/Yoyo Wang/Allen Xiao
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)



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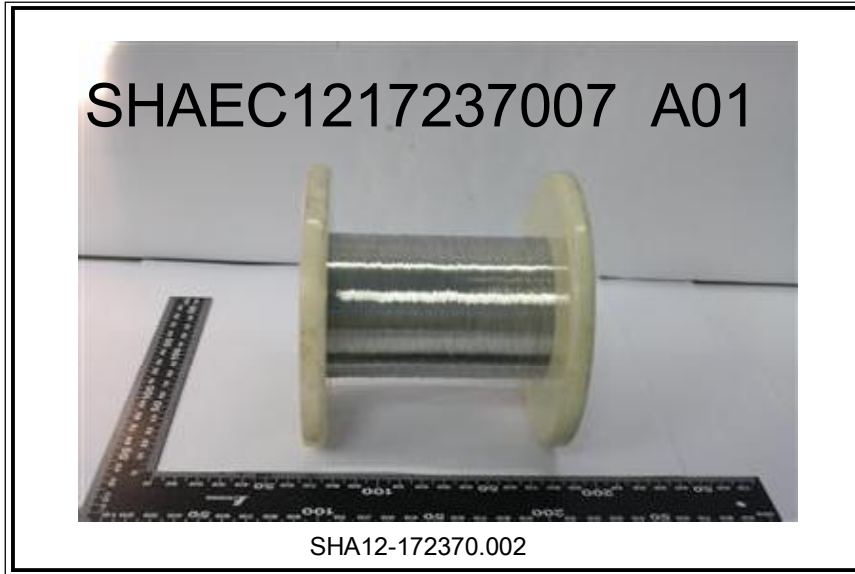
## Test Report

No. SHAEC1217237007 A01

Date: 11 Oct 2012

Page 4 of 4

Sample photo:



SGS authenticate the photo on original report only

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**Intertek**

## TEST REPORT

Applicant : DAIKOKU ELECTRIC WIRE CO., LTD.  
Address : 767-90, Hachisu,  
Ohtawara-city, Tochigi Pref. 324-0244 Japan

Page: 1 of 6

Report No. RT12R-54452-035-E

Date: Nov. 09, 2012

Sample Description : The following submitted sample(s) said to be:-

Name/Type of Product : SDHT DS-FH5  
Sample ID No. : RT12R-54452-035  
Manufacturer/Vender : DAIKOKU ELECTRIC WIRE CO., LTD.

Sample received : Oct. 30, 2012  
Testing Date : Oct. 30, 2012 -- Nov. 09, 2012

Test Type : RoHS wet chemical analysis  
Test Method(s) : Please see the following page(s).  
Test Result(s) : Please see the following page(s).

\* Note 1 : The test results presented in this report relate only to the object tested.

\* Note 2 : This report shall not be reproduced except in full without the written approval of the testing laboratory.

Approved by,

Jade Jang / Lab. Technical Manager

Authorized by,

Bo Park / Lab. General Manager

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# TEST REPORT

Page: 2 of 6  
Date: Nov. 09, 2012

Report No. RT12R-S4452-035-E

Sample ID No. : RT12R-S4452-035  
Sample Description : SDHT DS-FH5

Test Item	Unit	Test Method	MDL	Result
Cadmium (Cd)	µg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by acid digestion and determined by ICP-OES	0.5	N.D.
Lead (Pb)	µg/kg		5	N.D.
Mercury (Hg)	µg/kg		2	N.D.
Hexavalent Chromium (Cr <sup>6+</sup> ) (For metal)	-	With reference to IEC 62321 Edition 1.0 : 2008, by Spot test	(Threshold of 1 µg/kg)	Negative
Hexavalent Chromium (Cr <sup>6+</sup> ) (For metal)	-	With reference to IEC 62321 Edition 1.0 : 2008, by boiling water extraction and determined by UV-VIS Spectrophotometer	(Threshold of 0.02 mg/kg with 50 cm <sup>2</sup> )	Negative

Tested by : Nikkie Lee, Leo Kim

- Notes :
- µg/kg = ppm = parts per million
  - µg/kg with 50 cm<sup>2</sup> = milligram per kilogram with 50 square centimeter
  - < = Less than
  - N.D. = Not detected (<MDL)
  - MDL = Method detection limit
  - Positive = A positive test result indicated the presence of Cr(VI) at the time of testing, equal to or greater than threshold of 1 µg/kg for spot test procedures or 0.02 µg/kg for boiling water extraction procedures with a sample surface area of 50 cm<sup>2</sup> used. However, it shall not be interpreted as the Cr(VI) concentration in the coating layer of the sample and should not be used as a method detection limit for this qualitative test.
  - Negative = A negative test result indicates above positive observation was not found at the time of testing. When the spot test showed a negative result, the boiling water extraction procedure shall be used to verify the result.

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# TEST REPORT

Page: 3 of 6  
Date: Nov. 09, 2012

Report No. RT12R-S4452-035-E

Sample ID No. : RT12R-S4452-035  
Sample Description : SDHT DS-FH5

Test Item	Unit	Test Method	MDL	Result
<b>Polybrominated Biphenyl (PBBs)</b>				
Monobromobiphenyl	µg/kg	With reference to IEC 62321 Edition 1.0 : 2006, by solvent extraction and determined by GC/MS	5	N.D.
Dibromobiphenyl	µg/kg		5	N.D.
Tribromobiphenyl	µg/kg		5	N.D.
Tetrabromobiphenyl	µg/kg		5	N.D.
Pentabromobiphenyl	µg/kg		5	N.D.
Hexabromobiphenyl	µg/kg		5	N.D.
Heptabromobiphenyl	µg/kg		5	N.D.
Octabromobiphenyl	µg/kg		5	N.D.
Nonabromobiphenyl	µg/kg		5	N.D.
Decabromobiphenyl	µg/kg		5	N.D.
<b>Polybrominated Diphenyl Ether (PBDEs)</b>				
Monobromodiphenyl ether	µg/kg	With reference to IEC 62321 Edition 1.0 : 2006, by solvent extraction and determined by GC/MS	5	N.D.
Dibromodiphenyl ether	µg/kg		5	N.D.
Tribromodiphenyl ether	µg/kg		5	N.D.
Tetrabromodiphenyl ether	µg/kg		5	N.D.
Pentabromodiphenyl ether	µg/kg		5	N.D.
Hexabromodiphenyl ether	µg/kg		5	N.D.
Heptabromodiphenyl ether	µg/kg		5	N.D.
Octabromodiphenyl ether	µg/kg		5	N.D.
Nonabromodiphenyl ether	µg/kg		5	N.D.
Decabromodiphenyl ether	µg/kg		5	N.D.

Tested by : Ellen Jung, Jessica Kang

Notes : µg/kg = ppm = parts per million  
< = Less than  
N.D. = Not detected (<MDL)  
MDL = Method detection limit

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# TEST REPORT

Page: 4 of 6  
Date: Nov. 09, 2012

Report No. RT12R-S4452-035-E  
Sample ID No. : RT12R-S4452-035  
Sample Description : SDHT DS-FH5

Test Item	Unit	Test Method	MDL	Result
Bromine (Br)	µg/g	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Chlorine (Cl)	µg/g	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Fluorine (F)	µg/g	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Iodine (I)	µg/g	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.

Tested by : Nikkie Lee

Notes : µg/kg = ppm = parts per million  
< = Less than  
N.D. = Not detected (<MDL)  
MDL = Method detection limit

\*View of sample as received:-



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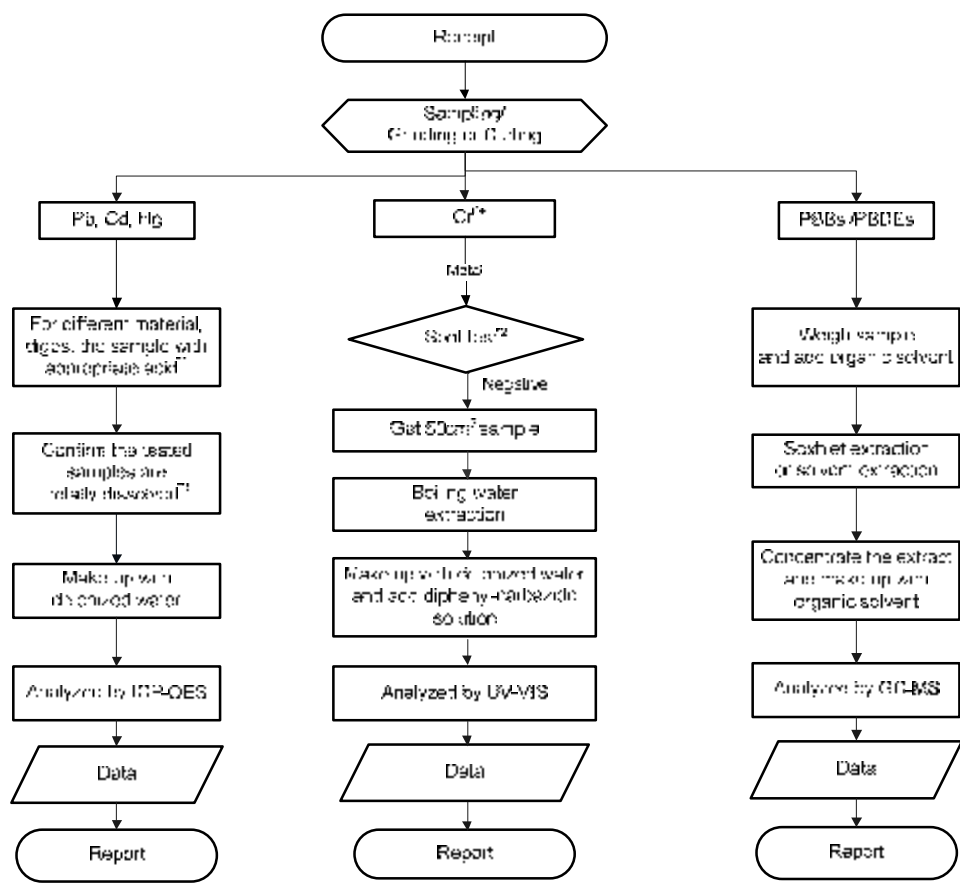
# TEST REPORT

Report No. RT12R-S4452-035-E

Page: 5 of 6  
Date: Nov. 09, 2012

Sample ID No. : RT12R-S4452-035  
Sample Description : SDHT DS-FH5

Flow Chart  
(EC 62321 Edition 1.0: 2008)



Remarks :

\*1 List of appropriate acid :

Material	Acid added for digestion
Polymers	HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> PO <sub>4</sub>
Metals	HNO <sub>3</sub> , HCl, HF
Electronics	HNO <sub>3</sub> , HCl, H <sub>2</sub> O <sub>2</sub> , HBF <sub>4</sub>

\*2 : If the result of spot test is positive, Chromium (VI) would be determined as detected.  
No further analysis is required.

\*3 : The samples were dissolved totally by pre-conditioning method according to above flow chart.

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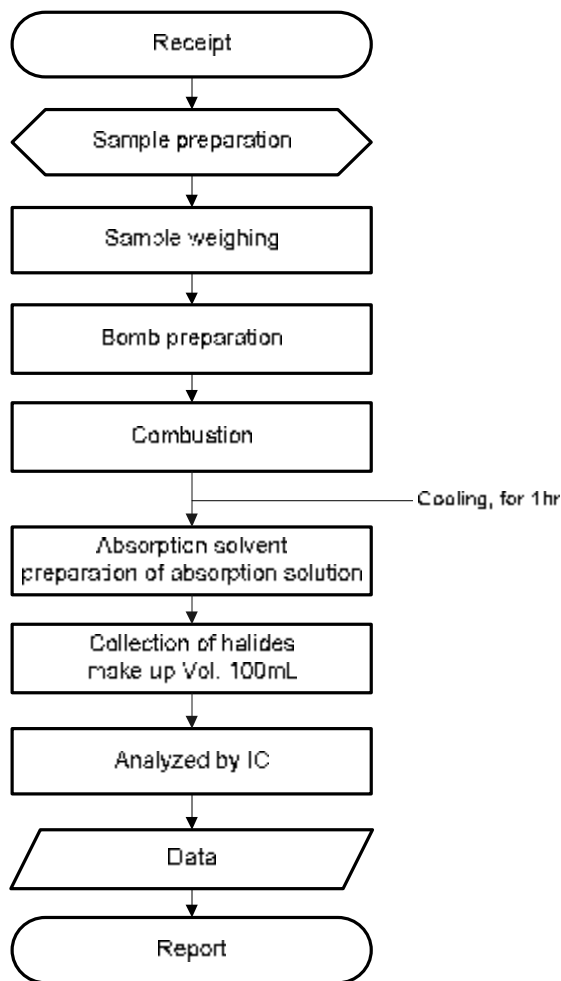


# TEST REPORT

Page: 6 of 6  
Date: Nov. 09, 2012

Report No. RT12R-S4452-035-E  
Sample ID No. : RT12R-S4452-035  
Sample Description : SDHT DS-FH5

## Flow Chart (Halogen)



\*\*\*\*\* End of Report \*\*\*\*\*

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# SGS

## 測試報告 Test Report

號碼(No.) : CE/2013/16820 日期(Date) : 2013/02/07 頁數(Page) : 1 of 7

廣州星意工業材料有限公司



GUANG ZHOU XING YI INDUSTRIAL MATERIAL CO., LTD.

廣州市荔灣區荔灣路小橋大街33號A棟305室

ROOM NO. A 305, 33B LIAOWEI STREET, LI WAN ROAD, LI WAN DISTRICT, GUANG ZHOU CITY,

GUANG DONG, CHINA

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)	:	UV-5820 ADHESIONS
樣品型號(Sample/Item No.)	:	UV 5820 / UV 5813 / UV 5820 / UV 5825 / UV 5875
收件日期(Sample Receiving Date)	:	2013/01/31
測試期間(Testing Period)	:	2013/01/31 TO 2013/02/07

**測試需求(Test Requested)** :

(1) 依據客戶要求，參考RoHS 2011/65/EU Annex II 指令進行鉛、鎘、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，進行鹵素 氟、氯、溴、碘測試。(As specified by client, to test 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/2013/16820 日期(Date) : 2013/02/07 頁數(Page) : 2 of 7



廣州星意工業材料有限公司

GUANG ZHOU XING YI INDUSTRIAL MATERIAL CO., LTD.

廣州市荔灣區荔灣路小橋大街33號A棟305室

ROOM NO. A 305, 33B LIAOWEI STREET, LI WAN ROAD, LI WAN DISTRICT, GUANG ZHOU CITY,

GUANG DONG, CHINA

### 測試結果(Test Results)

測試部位(PART NAME) No.1 : 半透明膏狀 (TRANSLUCENT PASTE)

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.
<b>鹵素 / Halogen</b>				
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.: 32527-15-1)			50	n.d.
鹵素(溴) / Halogen Bromine (Br) (CAS No.: 10957-82-2)			50	n.d.
鹵素(碘) / Halogen Iodine (I) (CAS No.: 14362-44-8)			50	n.d.

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# SGS

## 測試報告 Test Report

號碼(No.) : CE/2013/16820 日期(Date) : 2013/02/07 頁數(Page) : 3 of 7

廣州星意工業材料有限公司

GUANG ZHOU XING YI INDUSTRIAL MATERIAL CO., LTD.

廣州市荔灣區荔灣路小橋大街33號A棟505室

ROOM NO. A 505, 33B LIAOWEI STREET, LI WAN ROAD, LI WAN DISTRICT, GUANG ZHOU CITY,

GUANG DONG, CHINA



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.		

### 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)

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# SGS

## 測試報告 Test Report

號碼(No.): CE/2013/16820 日期(Date): 2013/02/07 頁數(Page): 4 of 7

廣州星意工業材料有限公司

GUANG ZHOU XING YI INDUSTRIAL MATERIAL CO., LTD.

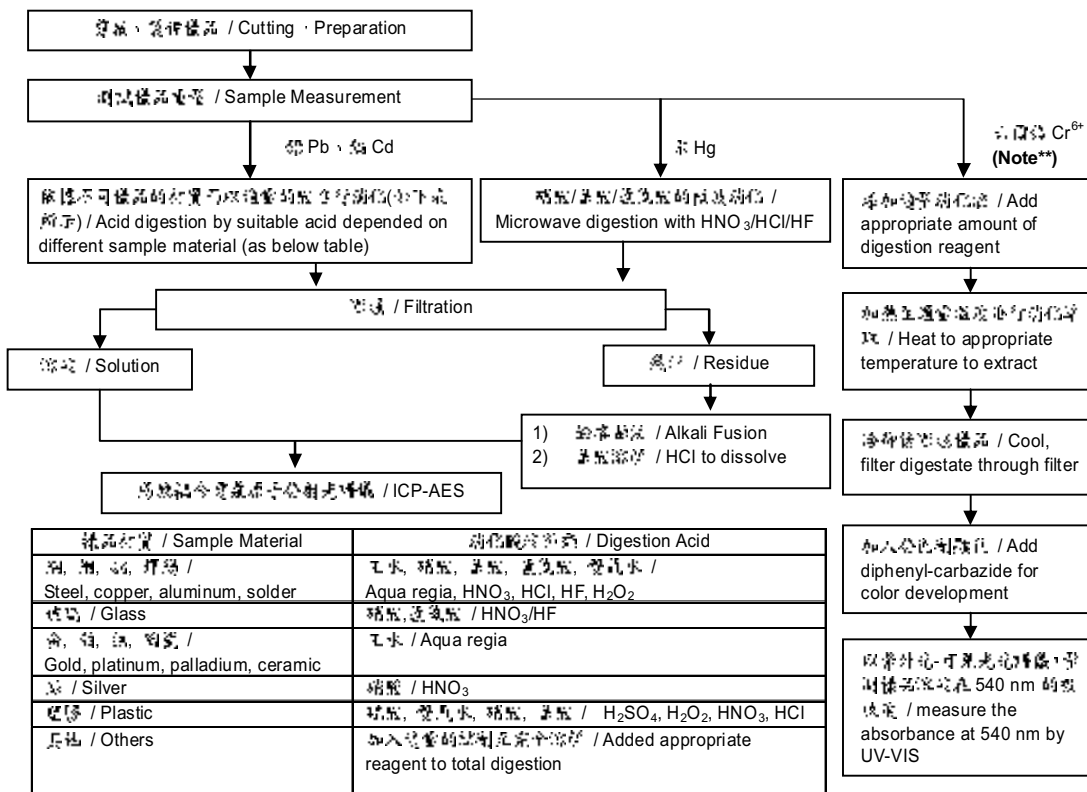
廣州市荔灣區荔灣路小梅大街33號A棟505室

ROOM NO. A 505, 33B ZHAOFEL STREET, LI WAN ROAD, LI WAN DISTRICT, GUANG ZHOU CITY,

GUANG DONG, CHINA



- 1) 根據以下表格說明之條件，樣品已完全溶解。(含備用測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded.)
- 2) 測試人員：楊君偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：蔡君英 / Name of the person in charge of measurement: Troy Chang



**Note\*\*:** (1) 對於非金屬樣品加入鹼性消化液，加熱至90-95℃。 / For non-metallic material, add alkaline digestion reagent and heat to 90-95℃.

(2) 對於金屬樣品加入純水，加熱至沸騰。 / For metallic material, add pure water and heat to boiling.

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# 測試報告 Test Report

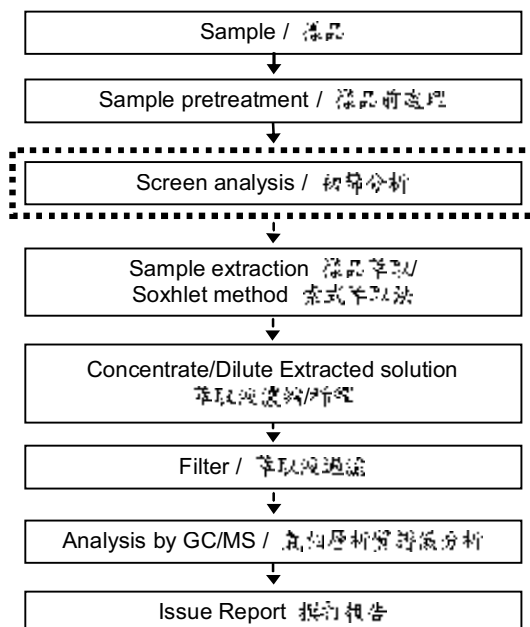
號碼(No.) : CE/2013/16820 日期(Date) : 2013/02/07 頁數(Page) : 5 of 7



廣州星意工業材料有限公司  
GUANG ZHOU XING YI INDUSTRIAL MATERIAL CO., LTD.  
廣州市荔灣區荔灣路小梅大街33號A棟305室  
ROOM NO. A 305, 33B ZHAOWEI STREET, LI WAN ROAD, LI WAN DISTRICT, GUANG ZHOU CITY,  
GUANG DONG, CHINA

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

- 測試人員：翁鴻彬 / Name of the person who made measurement: Roman Wong
  - 測試負責人：張尊鼎 / Name of the person in charge of measurement: Troy Chang
- 初次測試程序 / First testing process —————>
- 選擇性傳統程序 / Optional screen process .....>
- 確認程序 / Confirmation process - - ->



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## 測試報告 Test Report

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廣州星意工業材料有限公司

GUANG ZHOU XING YI INDUSTRIAL MATERIAL CO., LTD.

廣州市荔灣區荔灣路小梅大街33號A棟SGS室

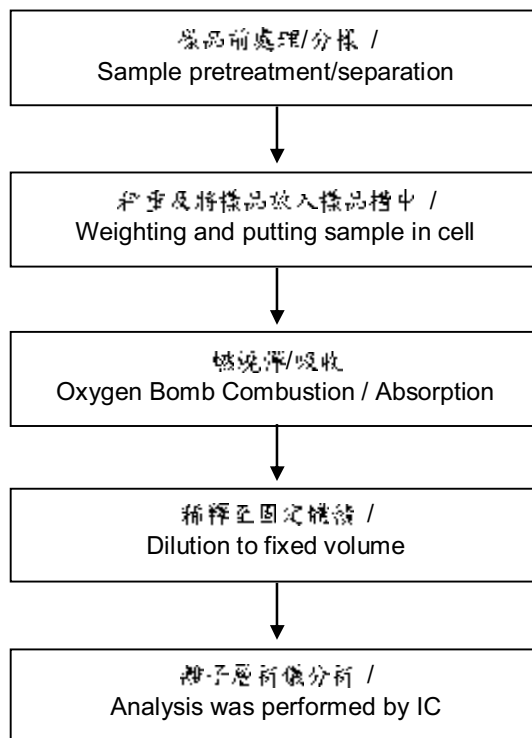
ROOM NO. A 305, 33F ZHAOGEI STREET, LI WAN ROAD, LI WAN DISTRICT, GUANG ZHOU CITY,

GUANG DONG, CHINA



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

- 測試人員：陳惠臻 / 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

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廣州星意工業材料有限公司

GUANG ZHOU XING YI INDUSTRIAL MATERIAL CO., LTD.

廣州市荔灣區荔灣路小梅大街33號A棟SGS室

ROOM NO. A 305, 33B ZHAOYI STREET, LI WAN ROAD, LI WAN DISTRICT, GUANG ZHOU CITY,

GUANG DONG, CHINA



\* 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/2013/16820



\*\*\* 報告結尾(End of Report) \*\*\*

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Member of the SGS Group



Product Technology Service

Report No.: NB2013030621

Page 1 of 4

### Test Report

Testing Institute : Product Technology Service (Ningbo) Co., Ltd.  
6&7F, 59#, Huayu Road,  
Yinzhou District, Ningbo 315192 P.R.China

Applicant : Changzhou Meige'Er Plastic, Co.,Ltd.  
No.439, Building 13, Changjiang Plastic Market, No.600, Tongjiang Mid  
Road, Changzhou

Product name : PBT

Model/Type : G20

Sample Description : Black

Material : /

Sample receive date : Feb.22,2013  
Completes date : Feb.27,2013

Testing location : Product Technology Service (Ningbo) Co., Ltd.

Test specification(s) : EC Directive 2011/65/EU—The Restriction of the Use of Certain  
Hazardous Substances in Electrical and Electronic Equipment  
—— (RoHS)

Remark : Required by the applicant,result of sample is taken from report  
NB2013022213-1,Date:2013/02/27

*Della Wang*  
Originator:  
Della Wang

*Jason Li*  
Verifier:  
Jason Li



Ningbo, Mar.06,2013

The test results exclusively refer to the samples examined. This report shall not be reproduced except in full without written approval and does not authorize the use of Product Technology Service (Ningbo) Co., Ltd. label. The report is invalid without signature and seal of Product Technology Service (Ningbo) Co., Ltd.

Product Technology Service (Ningbo) Co., Ltd.  
6 & 7F, Huayu Road, 59#  
Yinzhou District  
Ningbo 315192 P.R.China  
<http://www.pts-lab.com>  
NO. RC-SC-R645/03

Tel: 86-574-83035506  
Fax: 86-574-83036508  
P.R.:315192  
E mail: info@pts-lab.com

宁波中普检测技术服务有限公司  
浙江省宁波市  
鄞州中心区华裕路  
58号6&7楼  
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电话: 86-574-83035506  
传真: 86-574-83036508  
邮编: 315192  
邮箱: info@pts-lab.com





Product Technology Service

Report No.: NB2013030621

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Test specification : EC Directive 2011/65/EU—The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment— (RoHS)  
 Test method : IEC 62321:2008 – Procedures for Determination of Levels of six Regulated Substances in Electrical Products  
 Requirement : EC Directive 2002/95/EC, 2005/618/EC, 2005/717/EC, 2005/747/EC, 2006/310/EC 2008/385/EC , 2009/443/EC, 2010/122/EU, 2011/65/EU and 2011/534/EU

Product name: PBT				
Parameter:	Unit	Result	Requirement	Conclusion
Lead (Pb)	mg/kg	15	1000	Pass
Cadmium (Cd)	mg/kg	ND	100	Pass
Mercury (Hg)	mg/kg	ND	1000	Pass
Chromium VI (Cr VI)	mg/kg	ND	1000	Pass
<b>Polybrominated Biphenyls (PBBs)</b>				
1. Monobromobiphenyls	mg/kg	ND	--	--
2. Dibromobiphenyls	mg/kg	ND	--	--
3. Tribromobiphenyls	mg/kg	ND	--	--
4. Tetrabromobiphenyls	mg/kg	ND	--	--
5. Pentabromobiphenyls	mg/kg	ND	--	--
6. Hexabromobiphenyls	mg/kg	ND	--	--
7. Heptabromobiphenyls	mg/kg	ND	--	--
8. Octabromobiphenyls	mg/kg	ND	--	--
9. Nonabromobiphenyls	mg/kg	ND	--	--
10. Decabromobiphenyl	mg/kg	ND	--	--
Group PBBs	mg/kg	ND	1000	Pass
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>				
1. Monobromodiphenyl ethers	mg/kg	ND	--	--
2. Dibromodiphenyl ethers	mg/kg	ND	--	--
3. Tribromodiphenyl ethers	mg/kg	ND	--	--
4. Tetrabromodiphenyl ethers	mg/kg	ND	--	--
5. Pentabromodiphenyl ethers	mg/kg	ND	--	--
6. Hexabromodiphenyl ethers	mg/kg	ND	--	--
7. Heptabromodiphenyl ethers	mg/kg	ND	--	--
8. Octabromodiphenyl ethers	mg/kg	ND	--	--
9. Nonabromodiphenyl ethers	mg/kg	ND	--	--
10. Decabromodiphenyl ether	mg/kg	ND	--	--
Group PBDEs	mg/kg	ND	1000	Pass

ND = Not Detected, less than 5 mg/kg



Product Technology Service

Report No.: NB2013030621

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Test specification : EC Directive 2011/65/EU—The Alternative Restriction of the four Hazardous Substances in Electrical and Electronic Equipment— (HBCDD、DEHP、DBP 和 BBP)

Test method : Refer to US EPA 3540C:1996 and US EPA 8270D:2007.

Product name: PBT			
Parameter:	Unit	Report limit	Result
HBCDD	mg/kg	10	ND
Bis-(2-ethylhexyl) phthalate(DEHP)	%	0.005%	ND
Dibutyl phthalate(DBP)	%	0.005%	ND
Benzylbutyl phthalate(BBP)	%	0.005%	ND

ND = Not Detected, less than report limit

Main test instruments used for this method:

Parameter	Method in IEC: 62321:2008	Instrument	Manufactory	Model / Type
Pb & Cd	Chapter 8,10	ICP-OES	PerkinElmer	Optima 5300 DV
Hg	Chapter 7	ICP-OES	PerkinElmer	Optima 5300 DV
Cr VI	Annex C	UV	PerkinElmer	Lambda 35
PBBs & PBDEs	Annex A	GC-MS	Agilent	GC (6890)-MS (5975)
HBCDD&DEHP& DBP&DBP	---	GC-MS	Agilent	GC (6890)-MS (5975)

Sample photo(s), see annex1

---End---





Product Technology Service

Report No.: NB2013030621

### ANNEX 1

Sample photos, consists of 1 page



Page 4 of 4



PBT



# Test Report

Report No. RLSHF001378190001

Page 1 of 5

**Applicant** CHANGZHOU MINGFENG HARDWARE CONNE PTE.LTD  
**Address** NO.28 JIANNQU XUEJIATOU,HEPING VILLAGE,ZHENG LU TOWN,CHANGZHOU,JIANGSU,CHANA

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

Sample Name Copper pins  
Part No. 0.6--1.2  
Sample Received Date Feb. 25, 2013  
Testing Period Feb. 25, 2013 to Feb. 28, 2013

**Test Requested** As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Beryllium(Be), Antimony (Sb), Dimethyl Fumarate(DMF), Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonates(PFOS) in the submitted sample(s).

**Test Method** Please refer to the following page(s).

**Test Result(s)** Please refer to the following page(s).

Tested by

*Verna Chen*

Reviewed by

*Wey Zhong*

Approved by

*Joy Su*

Date

Feb. 28, 2013

Joy Su

Senior Laboratory Manager

No. 12488093

Centre Testing International (Shenzhen) Co., Ltd. Shanghai Branch No.1996,New Jinqiao Road, Pudong District, Shanghai





# Test Report

Report No. RLSHF001378190001

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## Test Method

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2mg/kg
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis	/
Beryllium(Be)	Refer to US EPA 3052:1996	ICP-OES	2mg/kg
Antimony (Sb)	Refer to US EPA 3052:1996	ICP-OES	5mg/kg
Dimethyl Fumarate(DMF)	Refer to US EPA 3550C:2007 & US EPA 8270D:2007	GC-MS	0.1mg/kg
Perfluorooctanoic Acid (PFOA)	Refer to US EPA 3550C:2007	LC-MS-MS	5mg/kg
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C:2007	LC-MS-MS	5mg/kg

## Test Result(s)

Tested Item(s)	Result
Lead(Pb)	19 mg/kg
Cadmium (Cd)	N.D.
Mercury(Hg)	N.D.
Hexavalent Chromium (Cr(VI))	Negative
Beryllium(Be)	N.D.
Antimony (Sb)	N.D.

Tested Item(s)	Result
Dimethyl Fumarate (DMF)	N.D.

Tested Item(s)	Result
Perfluorooctanoic Acid (PFOA)	N.D.
Perfluorooctane Sulfonates(PFOS)	N.D.

**Tested Sample/Part Description** Silvery metal

**Note:** The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Antimony, Beryllium.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL )

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI) , the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm<sup>2</sup> sample surface area used.





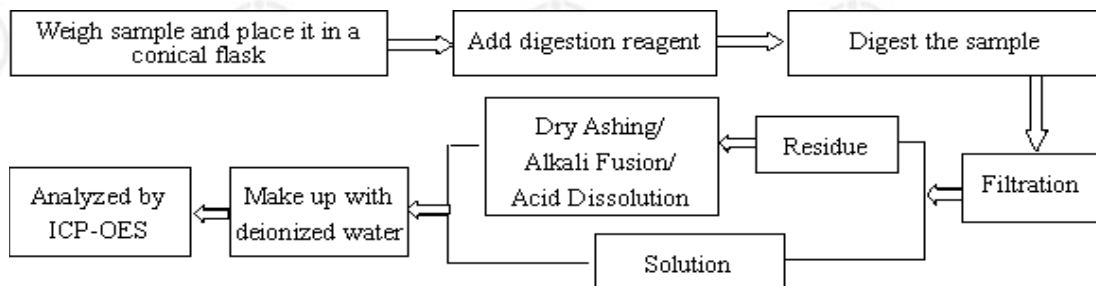
# Test Report

Report No. RLSHF001378190001

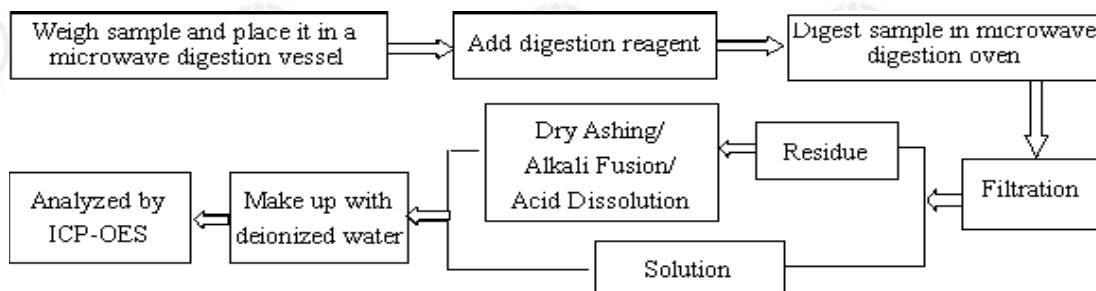
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## Test Process

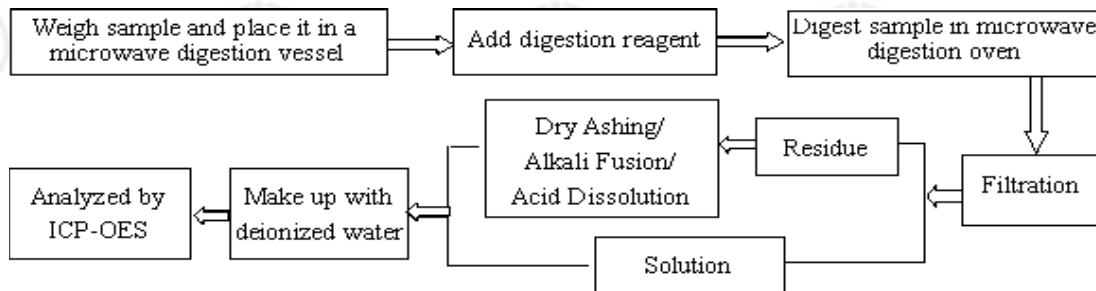
### 1. Lead(Pb), Cadmium(Cd)



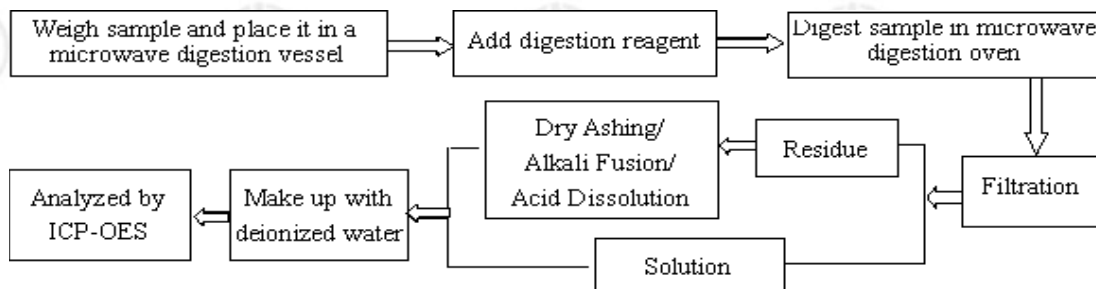
### 2. Mercury(Hg)



### 3. Beryllium(Be)



### 4. Antimony (Sb)



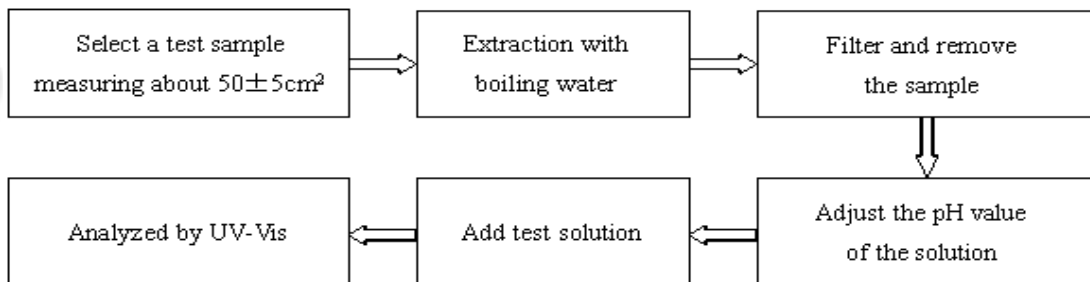


# Test Report

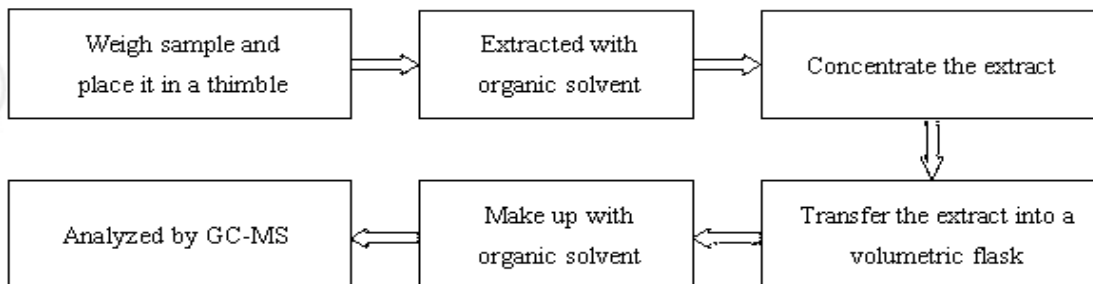
Report No. RLSHF001378190001

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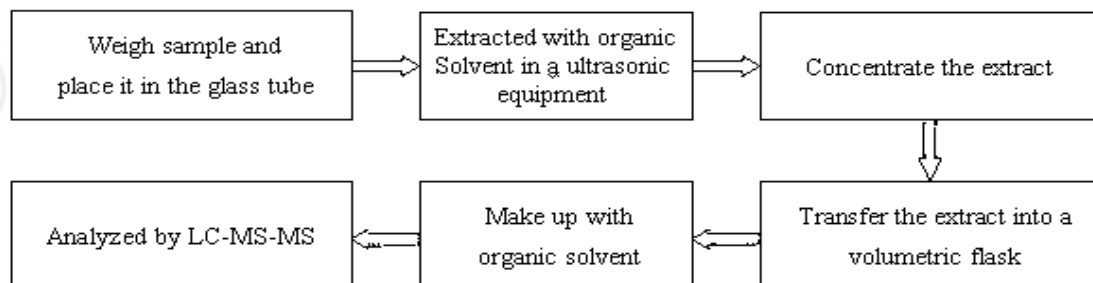
## 5. Hexavalent Chromium (Cr(VI))



## 6. Dimethyl Fumarate(DMF)



## 7. Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonates(PFOS)





# Test Report

Report No. RLSHF001378190001

Page 5 of 5

## Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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1. **Subject:** ...  
 2. **Author:** ...  
 3. **Title:** ...  
 4. **Keywords:** ...  
 5. **Abstract:** ...  
 6. **References:** ...  
 7. **Notes:** ...  
 8. **Comments:** ...  
 9. **Attachments:** ...  
 10. **Other:** ...

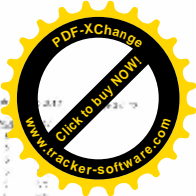
Signed for and on behalf of

  
 Full Name of  
 Authorized Signatory



I hereby certify that the above information is true and correct to the best of my knowledge and belief.  
 Date: \_\_\_\_\_  
 Place: \_\_\_\_\_  
 Signature: \_\_\_\_\_





Year	2011	2012	2013
Revenue	1000	1000	1000
Operating Profit	100	100	100
Net Profit	100	100	100
EPS	100	100	100
Dividend	100	100	100
Market Value	1000	1000	1000
Book Value	1000	1000	1000
Debt	1000	1000	1000
Equity	1000	1000	1000

Notes:

1. The above information is for illustrative purposes only and should not be used for investment decisions.

Item	2011	2012	2013
Revenue	1000	1000	1000
Operating Profit	100	100	100
Net Profit	100	100	100
EPS	100	100	100
Dividend	100	100	100
Market Value	1000	1000	1000
Book Value	1000	1000	1000
Debt	1000	1000	1000
Equity	1000	1000	1000

Notes:

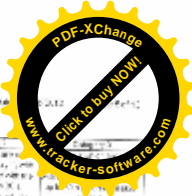
2. The above information is for illustrative purposes only and should not be used for investment decisions.

Item	2011	2012	2013
Revenue	1000	1000	1000
Operating Profit	100	100	100
Net Profit	100	100	100
EPS	100	100	100
Dividend	100	100	100
Market Value	1000	1000	1000
Book Value	1000	1000	1000
Debt	1000	1000	1000
Equity	1000	1000	1000









№	№	№	№
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53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
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89	90	91	92
93	94	95	96
97	98	99	100

Всего: 100 шт.

Итого: 100 шт.

**Спецификация**

Техническое задание № 100/2000 от 10.10.2000 г.

№	№	№	№
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5	6	7	8
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93	94	95	96
97	98	99	100

Всего: 100 шт.

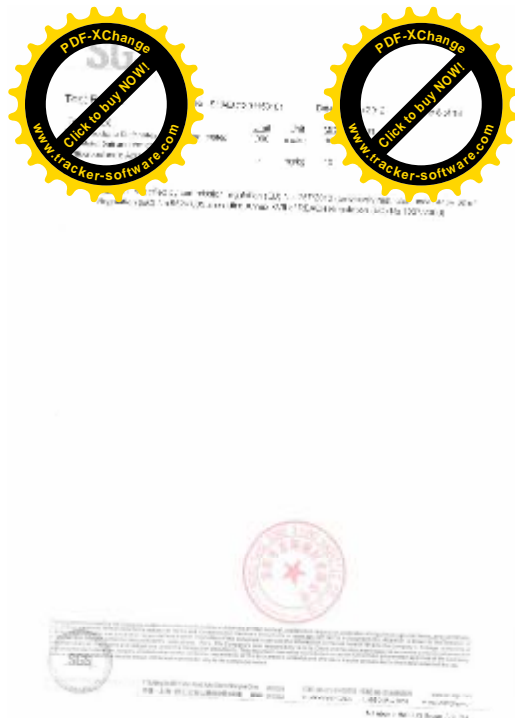
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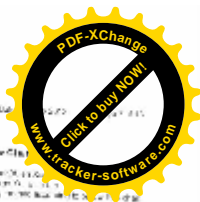
**Входные данные**

Исходные данные: 100 шт.

Спецификация: 100 шт.

Итого: 100 шт.





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# Test Report

Report No. RHS01F009121001

Page 1 of 4

**Applicant** PROMISE CHEER LTD  
**Address** ROOM 1105-1106 HAILRUN COMPLEX 6021 SHEN NAN BLVD FUTIAN DISTRICT SHENZHEN, CHINA

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

Sample Name HG  
Part No. 3398+990,866+650,3394+150,3398A  
Sample Received Date Jul. 26, 2013  
Testing Period Jul. 26, 2013 to Jul. 29, 2013

**Test Requested** As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted sample(s).

**Test Method**

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.10	ICP-OES
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.10	ICP-OES
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
Polybrominated Biphenyls(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS

**Test Result(s)** Please refer to the following page(s).

Tested by

*Rick Li*

Reviewed by

*Vangar He*

Approved by

*Danny Liu*

Date

Jul. 29, 2013

Danny Liu

Technical Manager

No. 1078475233

Centre Testing International (Shenzhen) Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China





# Test Report

Report No. RHS01F009121001

Page 2 of 4

## Test Result(s)

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	2 mg/kg

Tested Item(s)	Result	MDL
<b>Polybrominated Biphenyls(PBBs)</b>		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
<b>Polybrominated Diphenyl Ethers(PBDEs)</b>		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

**Tested Sample/Part Description** Brown-yellow liquid

**Note:** The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.  
 -MDL = Method Detection Limit  
 -N.D. = Not Detected (<MDL )  
 -mg/kg = ppm = parts per million



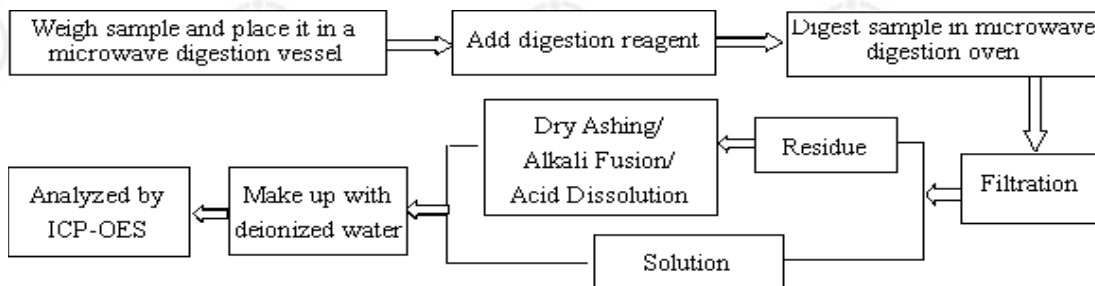
# Test Report

Report No. RHS01F009121001

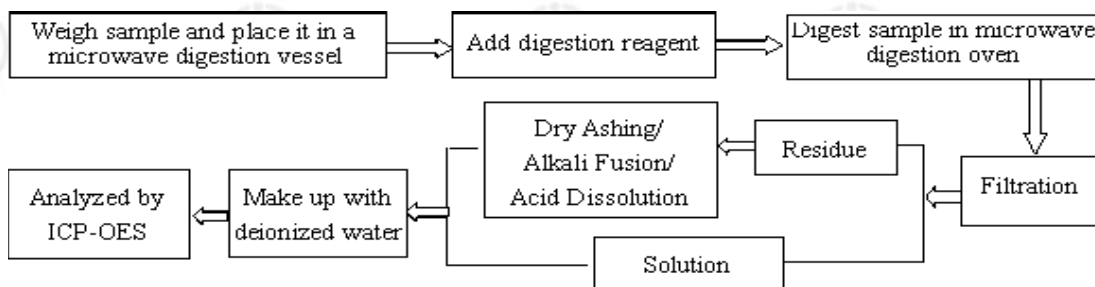
Page 3 of 4

## Test Process

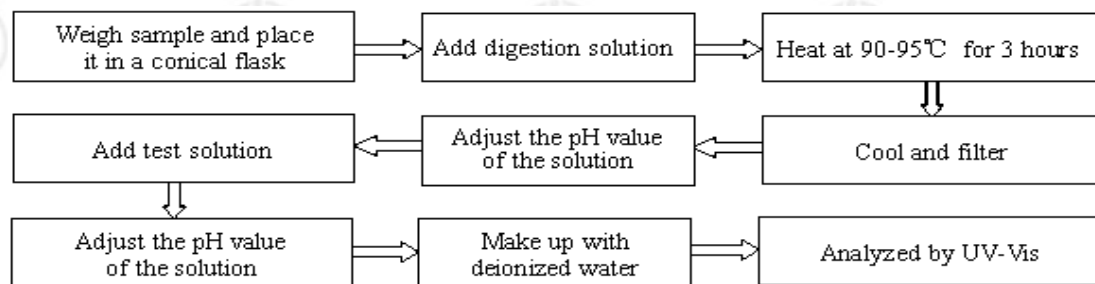
### 1. Lead(Pb), Cadmium(Cd)



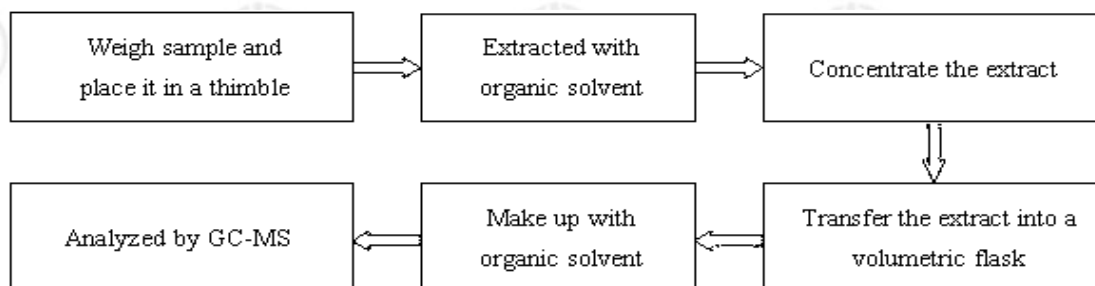
### 2. Mercury(Hg)



### 3. Hexavalent Chromium(Cr(VI))



### 4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)





# Test Report

Report No. RHS01F009121001

Page 4 of 4

## Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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# SGS



## Test Report

No. CANEC1213733801

Date: 18 Oct 2012

Page 1 of 6

ESE TRADING(SHANGHAI)CO.,LTD SHENZHEN BRANCH

UNIT K, 3/F, INTERNATIONAL CULTURE BUILDING, FU TIAN ROAD, SHENZHEN, PRC

The following sample(s) was/were submitted and identified on behalf of the clients as : DELO PHOTOBOND SD496

SGS Job No. : CP12-048366 - SZ

Date of Sample Received : 15 Oct 2012

Testing Period : 15 Oct 2012 - 18 Oct 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, 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.

Trophy Zhang  
Approved Signatory

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# Test Report

No. CANEC1213733801

Date: 18 Oct 2012

Page 2 of 6

Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN12-137338.001	Blue paste

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 Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Unit	MDL	GOI
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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 Guangzhou Branch / Chemical Laboratory

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# Test Report

No. CANEC1213733801

Date: 18 Oct 2012

Page 3 of 6

<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

### B:Halogen

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

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

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

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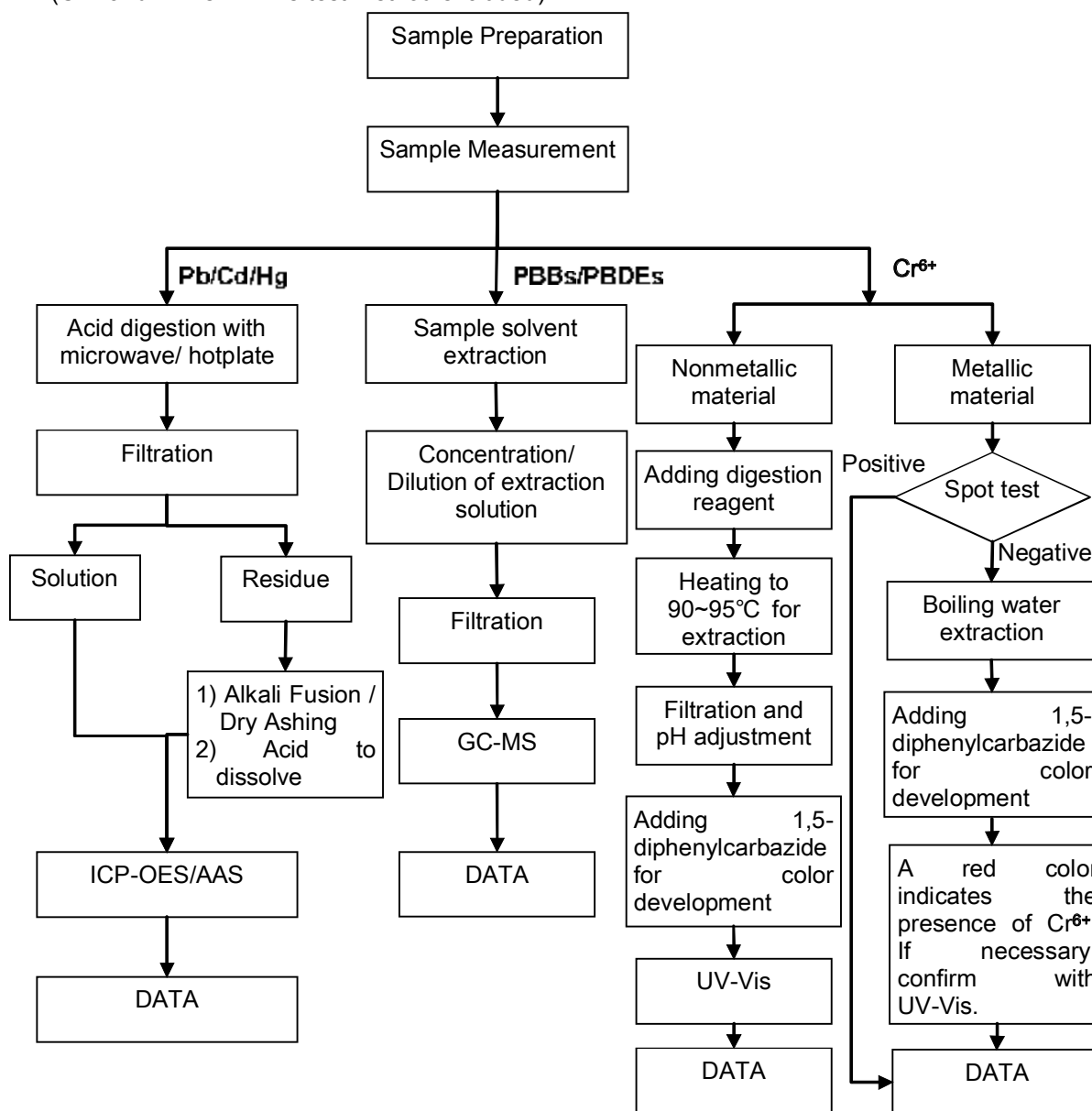




### ATTACHMENTS

#### RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Cutey Yu
- 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 (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



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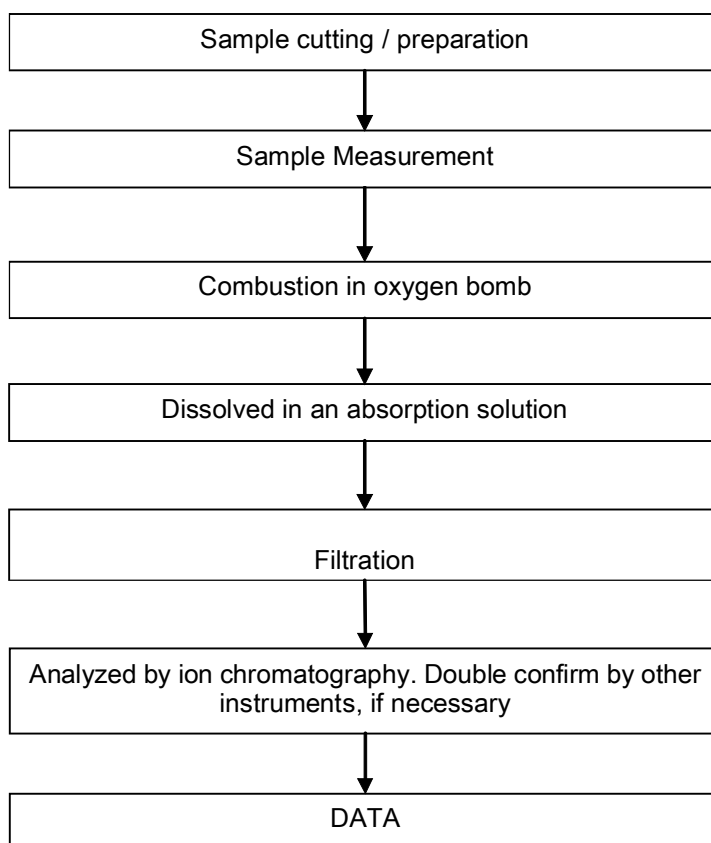




## ATTACHMENTS

### Halogen Testing Flow Chart

- 1) Name of the person who made testing: Bob Song
- 2) Name of the person in charge of testing: Rain Qiao



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# SGS



## Test Report

No. CANEC1213733801

Date: 18 Oct 2012

Page 6 of 6

Sample photo:



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## Test Report

No. CANEC1215790102

Date: 27 Nov 2012

Page 1 of 8

CHANGZHOU CITY SANLIAN ELECTRIC AUDIO SUPPLIES COMPANY LIMITED  
CHANGZHOU CHOW INDUSTRIAL PARK CRANE ON THE WEST ROAD 1

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

SGS Job No. : CP12-054929 - SZ  
Date of Sample Received : 20 Nov 2012  
Testing Period : 20 Nov 2012 - 27 Nov 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, 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.

Merry Lv  
Approved Signatory

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# Test Report

No. CANEC1215790102

Date: 27 Nov 2012

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Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN12-157901.002	Silver-grey metal sheet w/ blue printing

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

Test Item(s)	Limit	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)	-	-	◇	Negative
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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## Test Report

No. CANEC1215790102

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Test Item(s)	Limit	Unit	MDL	002
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 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 cm<sup>2</sup> 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.

### **B:Hexabromocyclododecane (HBCDD)**

Test Method : Determination of HBCDD by GC-MS based on IEC 62321:2008.

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

### Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC:

Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

### **C:Phthalate**

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.

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

### Notes :

- (1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

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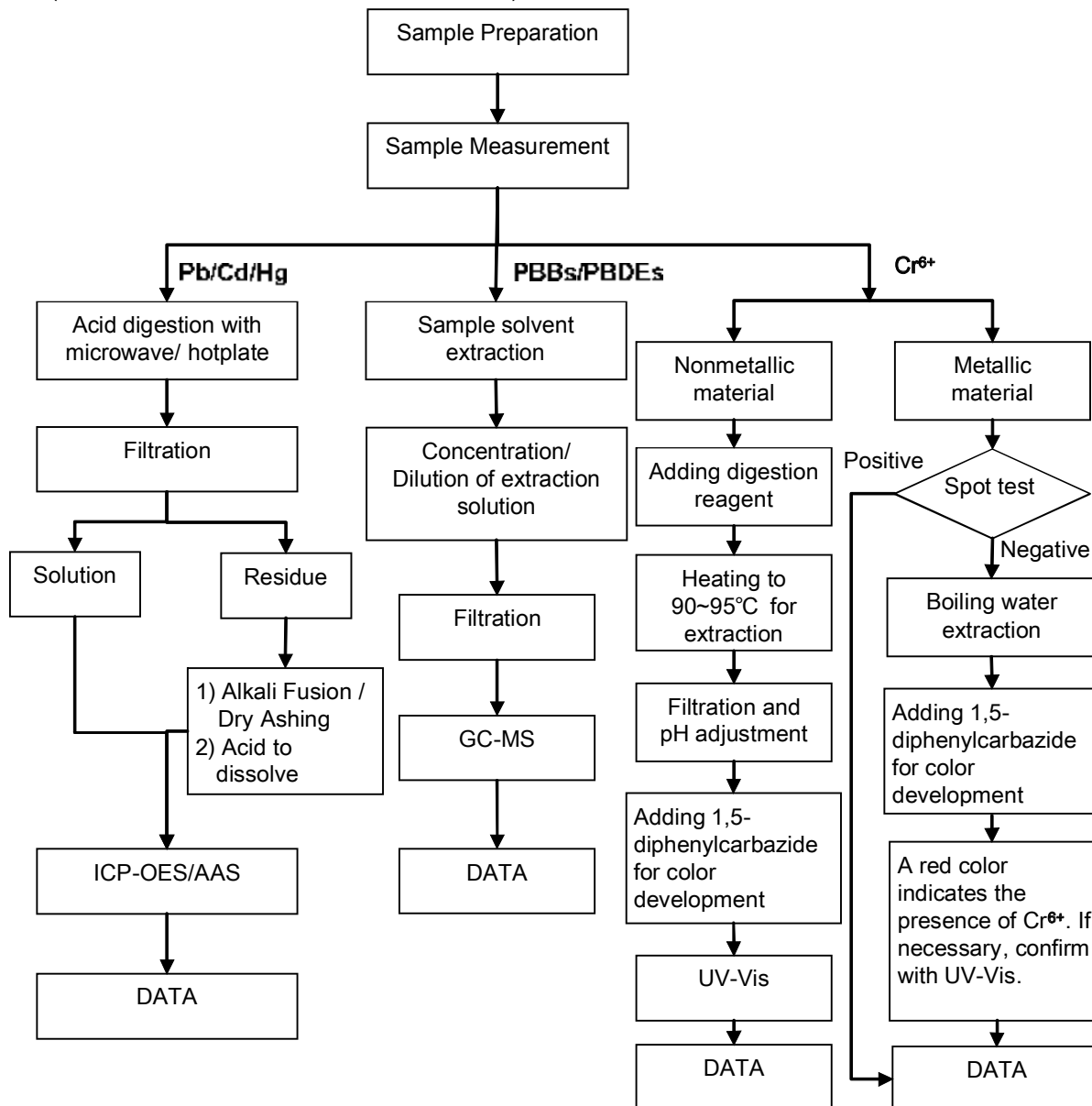
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### ATTACHMENTS

#### RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



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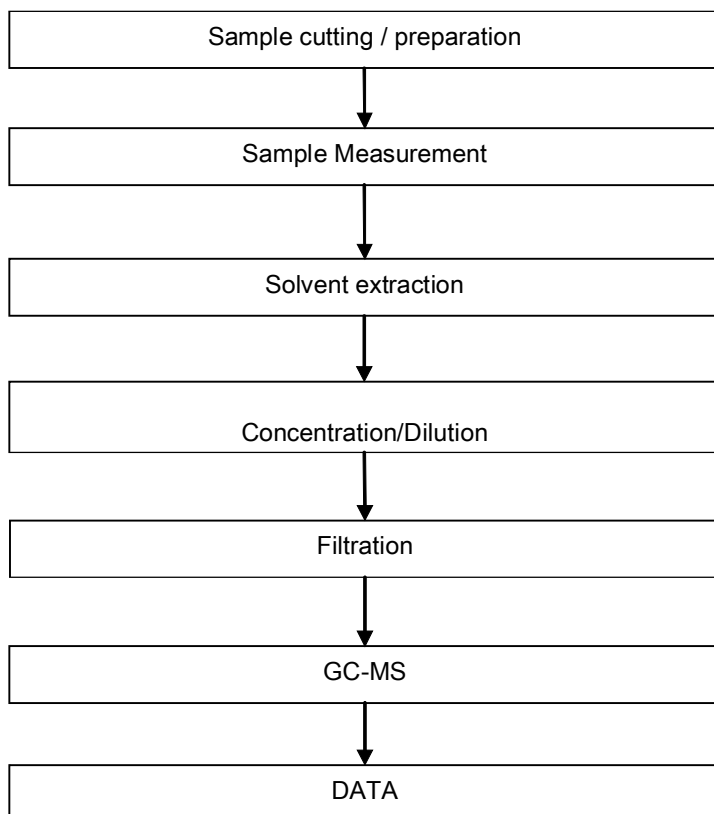




### ATTACHMENTS

#### HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Yolanda Wei



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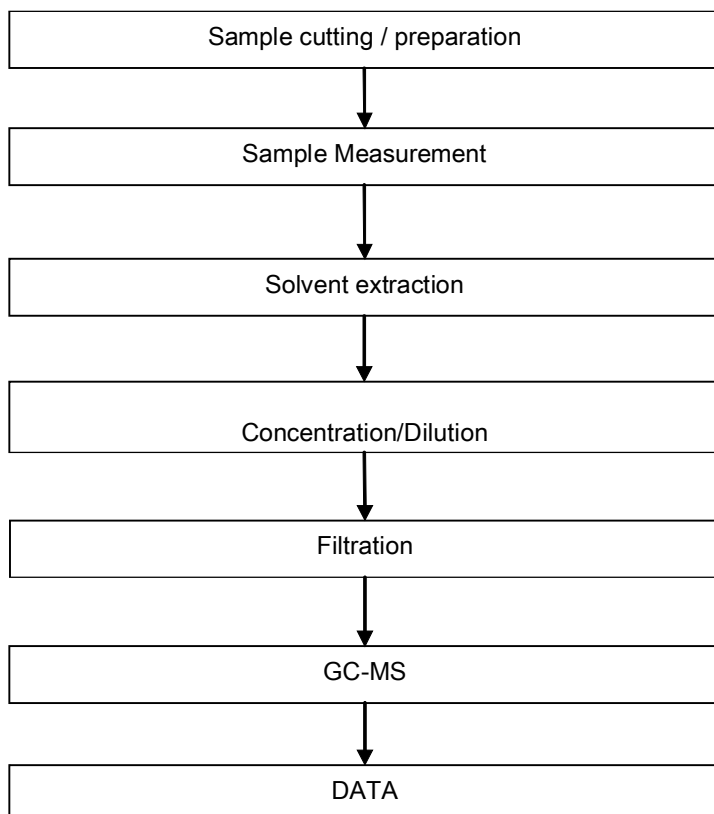




## ATTACHMENTS

### Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Liu Qiong
- 2) Name of the person in charge of testing: Yolanda Wei



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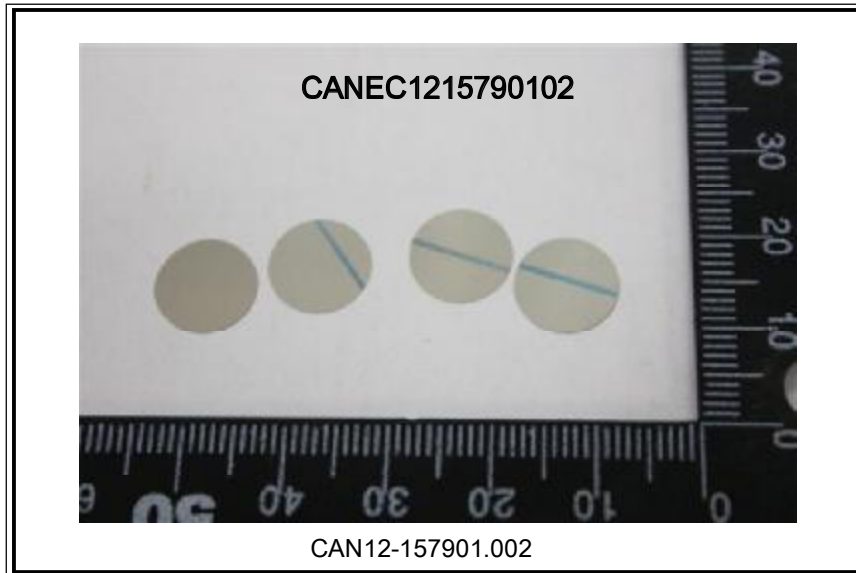
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Sample photo:



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\*\*\* End of Report \*\*\*

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# 測試報告

## Test Report

號碼(No.) : CE/2012/AS545B 日期(Date) : 2012/11/09 頁數(Page) : 2 of 20

尚帝實業有限公司 (SHIN DIT ENTERPRISES CO., LTD.)



(台北市尚帝電子材料有限公司 / DONGGJIAN SHIN YJ ELECTRONIC MATERIALS CO., LTD.)

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(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 透明淡黃色膏狀 (TRANSPARENT LT. YELLOW PASTU)

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.
六溴環十二烷 / Hexabromocyclododecane (F30FD) (CAS No.: 25637-59-4)	mg/kg	參考US EPA 3640C方法, 以氣相層析/質 譜儀檢測。 / With reference to US EPA 3640C method. Analysis was performed by GC/MS.	5	n.d.

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# 測試報告

## Test Report

號碼(No.): CE/2012/AS545B 日期(Date): 2012/11/09 頁數(Page): 3 of 20

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(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
鄰苯二甲酸甲苯基丁酸 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.033	n.d.
鄰苯二甲酸二(2-乙基己基)酸 / BEHP (Di-(2 ethyl hexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.033	n.d.
鄰苯二甲酸二異癸酸 / DIDP (Di-isodecyl phthalate) (CAS No.: 26751-40-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二異壬酸 / DINP (Di-isononyl phthalate) (CAS No.: 28553-13-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二正辛酸 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-6)	%	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.033	n.d.
鄰苯二甲酸二丁酸 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.033	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS Acid, Ketal Salt, Amide)	mg/kg	參考US EPA 8350C: 2007方法, 以液相層析/質譜儀檢測。 / With reference to US EPA 8350C: 2007. Analysis was performed by LC/MS.	10	n.d.

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(尚威(崑山)電子材料有限公司 / KUNSHAN SHIN WEI ELECTRONIC MATERIAL CO., LTD.)

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(尚益市樟木頭鎮香樟綠洲19棟第3單元102室 / NO.102, UNIT 3 BUILDING 19 CRYPHOM OASIS PARK THE VILLAGE ZHANG MU TOU TOWN, DONG GJIAN CITY, GUAN DONG)

(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
全氯辛酸 (級) / FDA (CAS No.: 335-37-1)	mg/kg	參考US EPA 8650C: 2007方法, 以液相層析/質譜儀檢測。 / With reference to US EPA 8650C: 2007. Analysis was performed by LC/MS.	10	n.d.
溶出錫 / Soluble Antimony (Sb)	mg/kg	參考歐洲玩具標準EN 71 PART 3: 1994, 以感應耦合電漿原子發射光譜儀做分析 / With reference to EN 71 PART 3: 1994 (AI: 3000 / AC:2002) (EN 71-3 & BS 6860 3 are identical), analysis was performed by ICP-AES.	5	n.d.
溶出砷 / Soluble Arsenic (As)	mg/kg		2.5	n.d.
溶出鉍 / Soluble Barium (Ba)	mg/kg		10	n.d.
溶出鎘 / Soluble Cadmium (Cd)	mg/kg		5	n.d.
溶出鉻 / Soluble Chromium (Cr)	mg/kg		5	n.d.
溶出鉛 / Soluble Lead (Pb)	mg/kg		5	n.d.
溶出汞 / Soluble Mercury (Hg)	mg/kg		5	n.d.
溶出硒 / Soluble Selenium (Se)	mg/kg		5	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg		參考IEC 62321: 2008方法, 以氣相層析/質譜儀檢測。 / With reference to IEC 62321: 2008 and performed by GC/MS.	5
一溴聯苯 / Monobromobiphenyl		5		n.d.
二溴聯苯 / Dibromobiphenyl		5		n.d.
三溴聯苯 / Tribromobiphenyl		5		n.d.
四溴聯苯 / Tetrabromobiphenyl		5		n.d.
五溴聯苯 / Pentabromobiphenyl		5		n.d.
六溴聯苯 / Hexabromobiphenyl		5		n.d.
七溴聯苯 / Heptabromobiphenyl		5		n.d.
八溴聯苯 / Octabromobiphenyl		5		n.d.
九溴聯苯 / Nonabromobiphenyl		5		n.d.
十溴聯苯 / Decabromobiphenyl	5	n.d.		

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# 測試報告

## Test Report

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尚帝實業有限公司 (SHIN DIT ENTERPRISES CO., LTD.)



(東莞市尚帝電子材料有限公司 / DONGGUAN SHIN YI ELECTRONIC MATERIALS CO., LTD.)

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(東莞市樟木頭鎮香樟綠洲19棟第3單元102室 / NO.102, UNIT 3 BUILDING 19 CRYPHOM OASIS PARK THE VILLAGE ZHANG MU TOU TOWN, DONG GUAN CITY, GUAN DONG)

(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

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
多溴聯苯醚總和 / Sum of PBDEs	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.
偶氮 (AZO)				
1): 4-氨基二苯胺 / 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	參考LVG1 83.02-2方法, 以氣相層析/ 質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
2): 聯苯胺 / BENZIDINE (CAS No.: 92-87-5)	mg/kg	參考LVG1 83.02-2方法, 以氣相層析/ 質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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# 測試報告

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尚希實業有限公司 (SHIN DIT ENTERPRISES CO., LTD.)



(東莞市尚呈電子材料有限公司 / DONGGUAN SHIN YI ELECTRONIC MATERIALS CO., LTD.)

(尚威(昆山)電子材料有限公司 / KUNSHAN SHIN WEI ELECTRONIC MATERIAL CO., LTD.)

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(東莞市樟木頭鎮香樟綠洲19棟第3單元102室 / NO.102, UNIT 3 BUILDING 19 CRYPHOM OASIS PARK THE VILLAGE ZHANG MU TOWN, DONG GUAN CITY, GUAN DONG)

(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

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
3): 4-氯鄰甲苯胺 / 4-CHLORO O-TOLUIDINE (CAS No.: 95-69-2)	mg/kg	參考LV31 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
4): 2-巯胺 / 2-METHYLELAMINE (CAS No.: 91-56-8)	mg/kg	參考LFGB 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
5): 鄰氨基二甲基偶氮 / O-AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	參考LV31 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
6): 對硝基鄰甲苯胺 / 2-AMINO-4-NITROTOLUENE (CAS No.: 59-65-8)	mg/kg	參考LV31 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 136-47-8)	mg/kg	參考LFGB 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
8): 1-甲氨基-4-氨基苯 / 2,4-DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	參考LV31 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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# 測試報告

## Test Report

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尚帝實業有限公司 (SHIN DIT ENTERPRISES CO., LTD.)



(東莞市尚帝電子材料有限公司 / DONGGUAN SHIN YI ELECTRONIC MATERIALS CO., LTD.)

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(東莞市樟木頭鎮香樟綠洲19棟第3單元102室 / NO.102, JIUFU 3 BUILDING 19 CRYPHOM OASIS PARK THE VILLAGE ZHANG MU TOU TOWN, DONG GUAN CITY, GUAN DONG)

(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

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
9): 4,4 二氨基二苯甲烷 / 4,4' DIAMINODIPHENYLMETHANE (CAS No.: 101-97-9)	mg/kg	參考LV31 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
10): 3,3 二氯聯苯胺 / 3,3' DICHLOROBENZIDINE (CAS No.: 61-94-1)	mg/kg	參考LFGB 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
11): 3,3 二甲氧基聯苯胺 / 3,3' DIMETHOXYBENZIDINE (CAS No.: 119-90-4)	mg/kg	參考LV31 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
12): 3,3 二甲基聯苯胺 / 3,3' DIMETHYLBENZIDINE (CAS No.: 119-93-7)	mg/kg	參考LFGB 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
13): 3,3 二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	參考LV31 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
14): 2-甲氧基-5-甲基聯苯 / P-CRESIDINE (2- METHOXY-5-METHYLANILINE) (CAS No.: 120-71- 8)	mg/kg	參考LFGB 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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# 測試報告

## Test Report

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尚帝實業有限公司 (SHIN DIT ENTERPRISES CO., LTD.)



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(東莞市樟木頭鎮香樟綠洲19棟第3單元102室 / NO.102, UNIT 3 BUILDING 19 CRPHOM OASIS PARK THE VILLAGE ZHANG MU TOU TOWN, DONG GUAN CITY, GUAN DONG)

(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

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
15): 4,4 亞甲基雙(氯苯胺) / 4,4 METEYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 121-14-4)	mg/kg	參考LVG3 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
16): 4,4 氧化雙苯胺 / 4,4 OXYDIANILINE (CAS No.: 131-80-4)	mg/kg	參考LFGB 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
17): 4,4 硫代雙苯胺 / 4,4 TTIOBIANILINE (CAS No.: 139-65-1)	mg/kg	參考LVG3 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	參考LFGB 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
19): 2,4 二氯基甲苯 / 2,4 TOLYLENEBIXINE (CAS No.: 95-80-7)	mg/kg	參考LVG3 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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# 測試報告

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(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No.1
20): 2,4,6-三甲基苯胺 / 2,4,6 TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	參考LV3 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
21): 對位甲氧基苯胺 / 0-4NISTRINE (CAS No.: 90-04-0)	mg/kg	參考LFGB 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
22): 對氣基偶氮苯 / P-AZINOAZOBENZENE (CAS No.: 60 09 3)	mg/kg	參考LV3 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	參考LFGB 82.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 87 63 7)	mg/kg	參考LV3 83.02-2方法, 以氣相層析/質譜儀檢測。 / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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# 測試報告

## Test Report

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尚帝實業有限公司 (SHIN DIT ENTERPRISES CO., LTD.)



(東莞市尚帝電子材料有限公司 / DONGGUAN SHIN YI ELECTRONIC MATERIALS CO., LTD.)

(尚威(崑山)電子材料有限公司 / KUNSHAN SHIN YI ELECTRONIC MATERIAL CO., LTD.)

新北市燕洲區民基路132巷82弄35之6號 (NO. 35-6, 82 ALLEY, 422 LANE, MIN TSI ROAD, LU CHOU DISTRICT, NEW TAIPEI CITY, TAIWAN R. O. C.)

(東莞市樟木頭鎮香樟綠洲19棟第3單元102室 / NO.102, UNIT 3 BUILDING 19 CRYPHOM OASIS PARK THE VILLAGE ZHANG MU TOU TOWN, DONG GUAN CITY, GUAN DONG)

(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

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
<b>多環芳香族化合物 / Polynuclear Aromatic Hydrocarbons (PAHs)</b>				
萘 / Acenaphthene (CAS No.: 83-32-9)	mg/kg	參考ZLS standard ZEK 01.4-98方法, 以氣相層析/質譜儀檢測。 / With reference to ZLS standard ZEK 01.4-98 method. Analysis was performed by GC/MS.	0.2	n.d.
蒽 / Acenaphthylene (CAS No.: 218-96-3)			0.3	n.d.
苊 / Anthracene (CAS No.: 128-19-7)			0.3	n.d.
苯[a]芘 / Benz[a]anthracene (CAS No.: 56-55-3)			0.2	n.d.
苯[a]蒽 / Benz[a]pyrene (CAS No.: 56-32-8)			0.3	n.d.
苯[h]芘 / Benz[h]fluoranthene (CAS No.: 205-99-0)			0.3	n.d.
苯[j]芘 / Benz[j]fluoranthene (CAS No.: 191-74-2)			0.2	n.d.
苯[k]芘 / Benz[k]fluoranthene (CAS No.: 207-64-9)			0.3	n.d.
Chrysene (CAS No.: 218-01-9)			0.2	n.d.
二苯并[a,h]蒽 / Benzo[a,h]anthracene (CAS No.: 58-78-3)			0.3	n.d.
苯[a]芘 / Fluoranthene (CAS No.: 202-44-0)			0.3	n.d.
芘 / Fluorene (CAS No.: 86-73-7)			0.2	n.d.
吡[1,2,3-c,d]芘 / Indeno[1,2,3-c,d]pyrene (CAS No.: 193-38-5)			0.3	n.d.
萘 / Naphthalene (CAS No.: 91-20-3)			0.2	n.d.
菲 / Phenanthrene (CAS No.: 83-01-8)			0.2	n.d.
芘 / Pyrene (CAS No.: 129-00-0)			0.3	n.d.
苯[ghi]芘 / Benz[ghi]fluoranthene (CAS No.: 205-87-3)			0.2	n.d.
苯[a]蒽 / Benz[a]pyrene (CAS No.: 192-97-2)			0.2	n.d.
<b>多環芳香族化合物18項總和 / Sum of 18 PAHs</b>	-			n.d.

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(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

### 備註(Note) :

1. mg/kg = ppm; 0.1mg/L = 100ppm
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) : 持久性有機汚染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001% (10µm), 在半成品、成品或零部件中不得超過0.1% (100µm), 在紡織品或塗層材料中不得超過1µg/m<sup>2</sup>。

(Outlining 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% (100ppm), in textiles or other coated materials above 1µg/m<sup>2</sup>.)

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(東莞市樟木頭鎮香樟綠洲19棟第3單元192室 / NO.192, UNIT 3 BUILDING 19 CHIMAM OASIS PARK TDI VILLAGE ZIANG MU TOWNSHIP, DONG GUAN CITY, GUAN DONG)

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### PAHs參考資料(Reference information):

依據ZEK 01.4-08之要求: 產品中最大值為

(Requirement of ZEK 01.4-08 : Restraining maximum values for products)

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)	第3類 (Category 3)
	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。 (Material intended to be put in the mouth or toys for children aged < 36 months with intended skin contact.)	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。 (Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long term skin contact).)	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。 (Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short term skin contact).)
苯[a]芘 Benzo[a]pyrene (mg/kg)	<NME. (<0.2)**	1	20
15項PAH總濃度 (Sum of 15 PAH) (mg/kg)*	<NME. (<0.2)**	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, 可能需經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 LFBB 89:30-1方法, 針對特定PAH的遷移測試進行測試。遷移測試的結果將依照食品規範評估。

(If the limits of category 1 are surpassed but the limits of category 2 still not, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBB 89:30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.)

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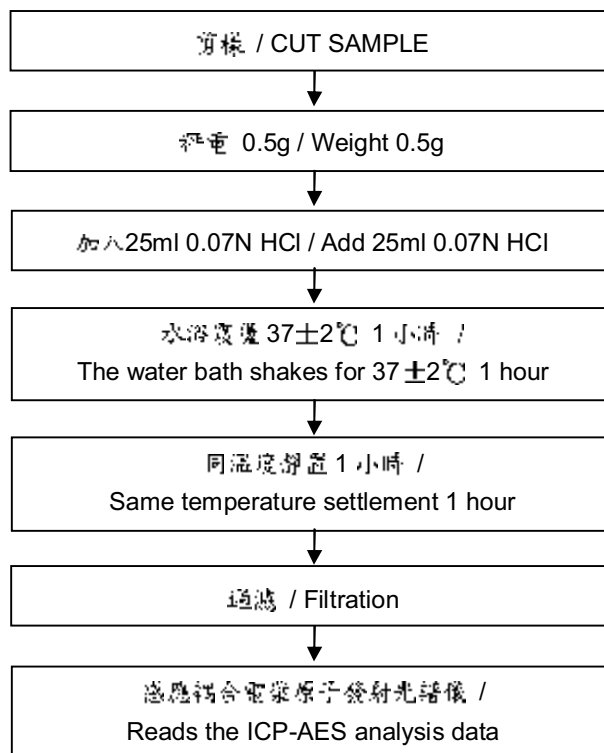
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(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGJIANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

### 重金屬特定遷移分析流程圖 / Migration of heavy metals Analytical flow chart

- 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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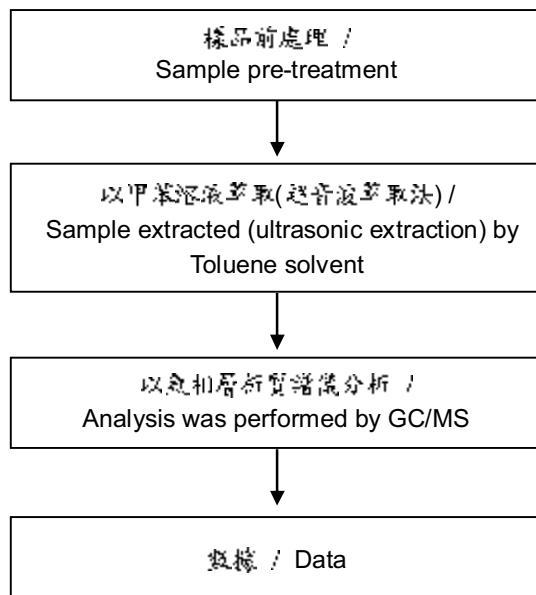
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### 多苯環芳香族化合物分析流程圖 / PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

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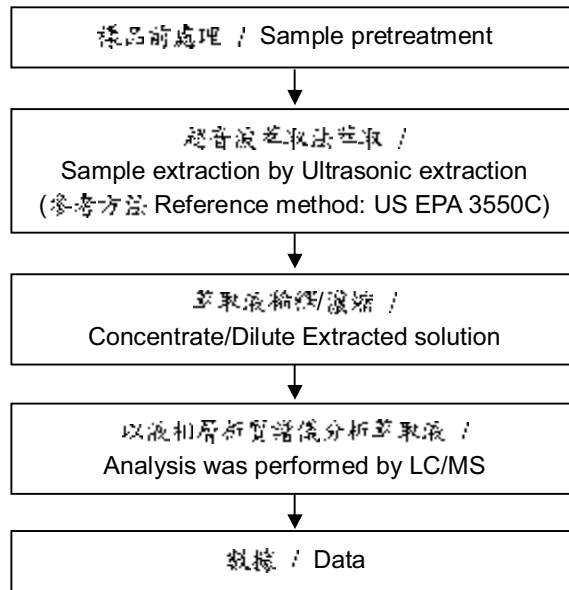
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### 全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員：翁陽彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張崇興 / Name of the person in charge of measurement: Troy Chang



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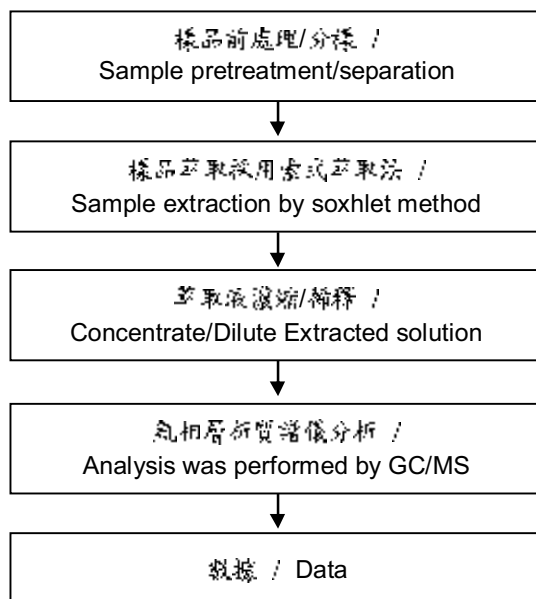
新北市燕洲區民基路122巷82弄35之6號 (NO. 35-6, 82 ALLEY, 422 LANE, MIN TSI ROAD, LU CHOU DISTRICT, NEW TAIPEI CITY, TAIWAN R. O. C.)

(東莞市樟木頭鎮香樟綠洲19棟第3單元102室 / NO.102, UNIT 3 BUILDING 19 ORPHAN OASIS PARK THE VILLAGE ZHANG MU TOU TOWN, DONG GUAN CITY, GUAN DONG)

(江蘇省昆山市經濟開發區蓬坊鎮馬塘路166號 / NO. 166 PENGLANG TOWN YATANG ROAD KUNSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE (KRTD))

### 六溴環十二烷分析流程圖 / HBCDD 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

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尚帝實業有限公司 (SHIN DIT ENTERPRISES CO., LTD.)



(東莞市尚帝電子材料有限公司 / DONGGUAN SHIN YI ELECTRONIC MATERIALS CO., LTD.)

(尚威(昆山)電子材料有限公司 / KUNSHAN SHIN WEI ELECTRONIC MATERIAL CO., LTD.)

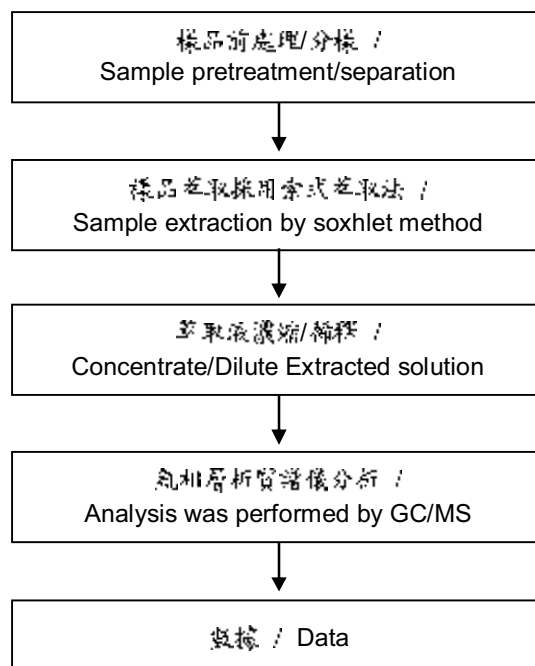
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(東莞市樟木頭鎮香樟綠洲19棟第3單元102室 / NO.102, UNIT 3 BUILDING 19 ORPHAN OASIS PARK THE VILLAGE ZHANG MU TOU TOWN, DONG GUAN CITY, GUAN DONG)

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

- 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

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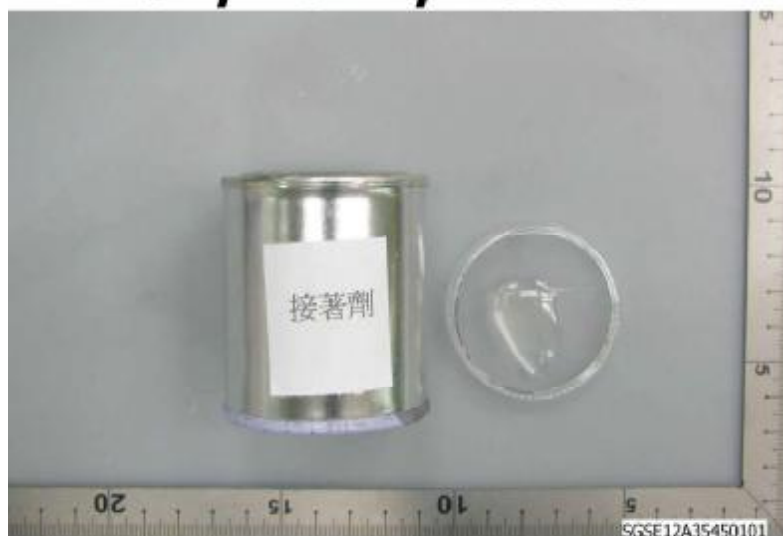
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 \*

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

# CE/2012/A3545



\*\*\* 報告終尾 (End of Report) \*\*\*

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