

### **ICP Test Report Certification Packet**

Company name:	Littelfuse, Inc.
Product Series:	T 400 - 300V CLASS T BLOCK 400A 1 POLE
Product #:	T 400A - LFT304001CS
Issue Date:	September 11, 2012
65/EU)-restricted substar packing/packaging materi In addition, it is hereby rep for unit parts, the packing/	relfuse, Inc. that there is neither RoHS (EU Directive 2002/95/EC, 2011/nce nor such use, for materials to be used for unit parts, for als, and for additives and the like in the manufacturing processes. Ported to you that the parts and sub-materials, the materials to be used backaging materials, and the additives and the like in the manufacturing sed of the following components.
	Issued by: KRISTEEN BACILA
	<global ehs="" engineer=""></global>
(1) Parts, sub-materials a	
This document cov Littelfuse, Inc.	rers the T 400A RoHS-Compliant series products manufactured by
< Raw Materials U Please see Tabl	
(2) The ICP data on all r	neasurable substances ropriate pages as identifed in Table 1
Remarks :	



Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	NA	FR-4	3-11
2	NA	Terminal Block - Aluminum	12-17
3	NA	Screw - Aluminum	12-17
4	NA	Hex bolt - Steel	18-21
5	NA	Hex Nut - Steel	18-21
6	NA	Hexagon Bolt - Steel	18-21
7	NA	Spring washers – Steel Mn	22-26
8	NA	Epoxy resin	27-34
9	NA	Plating - Zinc	35-38
10	NA	Plating - Tin	39-42



No. CANEC1112441702

Date: 04 Jan 2012

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ZHUHAI SEZ HARBOUR INDUSTRIAL LAMINATE LTD 4,XINGGUO STREET,NANKENG INDUSTRIAL ZONE,ZHUHAI CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: FR-4(BLACK)

SGS Job No.: CP11-015380 - SZ

Date of Sample Received: 27 Dec 2011

Testing Period: 27 Dec 2011 - 04 Jan 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).

Signed for and on behalf of SGS-CSTC Ltd.

Trophy Zhang
Approved Signatory

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In least other results shown in this test report refer only to the sample(s) tested.



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Test Results:

#### Test Part Description:

Specimen No. SGS Sample ID Description

1 CAN11-124417.002 Black sheet

#### Remarks:

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected ( < MDL)

(4) "-" = Not Regulated

#### Elementary Analysis & Flame Retardants

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)	<u>Unit</u>	MDL	002
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	4
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	mg/kg	2	ND
Sum of PBBs	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	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND

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Test Report	No. CANEC1112441702	Date: 04	Jan 2012	Page 3 of 9
Test Item(s)	<u>Unit</u>	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	

#### **Phthalates**

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

Test Item(s)	<u>Unit</u>	MDL	002
Dibutyl Phthalate (DBP)	% (w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	% (w/w)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	% (w/w)	0.003	ND
Diisononyl Phthalate (DINP)	% (w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	% (w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	% (w/w)	0.010	ND
Dimethyl Phthalate (DMP)	% (w/w)	0.003	ND
Diethyl Phthalate (DEP)	% (w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	% (w/w)	0.003	ND
Dinonyl Phthalate (DNP)	% (w/w)	0.003	ND
Diisooctyl Phthalate (DiOP)	% (w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	% (w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	% (w/w)	0.003	ND
Dipentyl Phthalate (DPP)	% (w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	% (w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	% (w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	% (w/w)	0.003	ND

Notes:

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

Please refer to Regulation (EC) No 552/2009 to get more detail information DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

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

#### Tetrabromobisphenol A (TBBP-A)

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

 Test Item(s)
 Unit
 MDL
 002

 Tetrabromobisphenol A (TBBP-A)
 mg/kg
 10
 ND

#### PFOS (Perfluorooctane Sulfonates)

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

Test Item(s) Unit MDL 002
Perfluorooctane Sulfonates (PFOS) and related mg/kg 10 ND

Acid, Metal Salt and Amide

#### Notes:

- (1) PFOS Reference Information: Entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2006/122/EC)
  - (i) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
  - (ii) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg /m² of the coated material.

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

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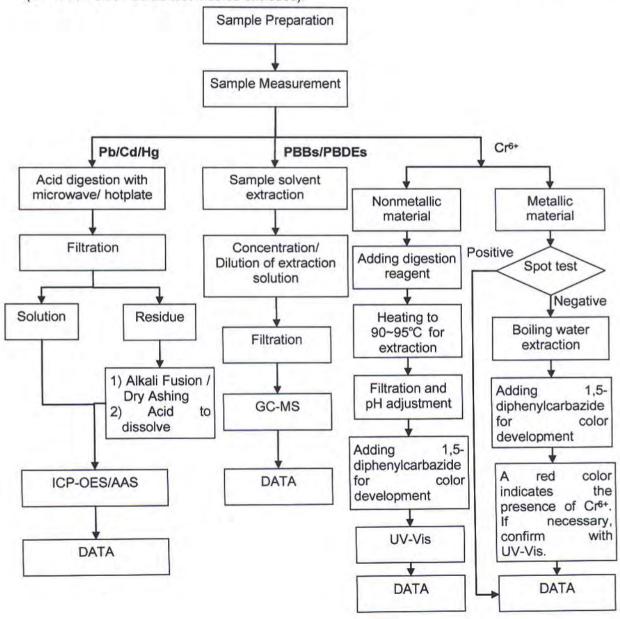
Date: 04 Jan 2012

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#### **ATTACHMENTS**

### **RoHS Testing Flow Chart**

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



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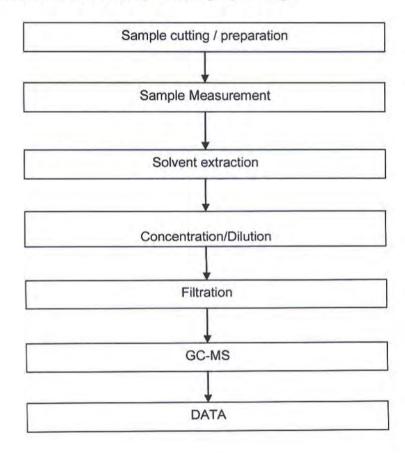
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#### **ATTACHMENTS**

#### Phthalates Testing Flow Chart

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



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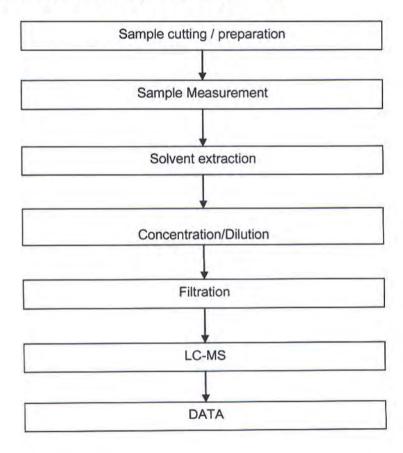
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#### **ATTACHMENTS**

### PFOA / PFOS Testing Flow Chart

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



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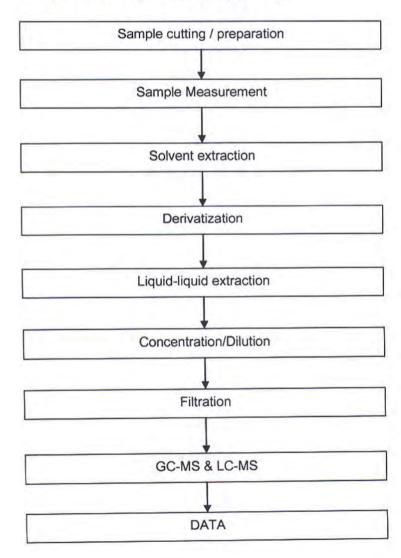
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#### **ATTACHMENTS**

### TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Cutey Yu
- Name of the person in charge of testing: Ryan Yang



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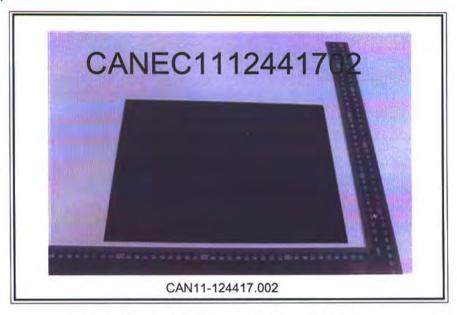


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Sample photo:



SGS authenticate the photo on original report only

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Test Report Number: TWNC00268059

Applicant: Littelfuse Philippines Inc.

Date : Jul 27, 2012

LIMA Technology Center, Lipa City,

: Jul 21, 2012

Malvar, Batangas

Sample Description:

Date Test Started

One (1) group of submitted samples said to be :
Part Description : Aluminum Material
Date Sample Received : Jul 20, 2012

Test Conducted:

As requested by the applicant, for details please refer to attached pages.

Authorized By: On Behalf Of Intertek Testing Services Taiwan Limited



K. Y. Liang
Director

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Page 1 of 6



#### Test Conducted

#### ( I ) Test Result Summary :

Test Item	Result (ppm) Silvery Metal
Heavy Metal	
Cadmium (Cd) content	ND
Lead (Pb) content	14
Mercury (Hg) content	ND
Chromium VI (Cr <sup>6+</sup> ) content (mg/kg with 50cm <sup>2</sup> )	Negative (< 0.02)

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg

ND = Not detected
< = Less than</pre>

mg/kg with 50cm<sup>2</sup> = milligram per kilogram with 50 square centimetre Negative = A negative test result indicated positive observation was not found at the time of Test.

Responsibility of Chemist : Irene Chiou / Kevin Liu / Cathy Chen

Date Sample Received : Jul 20, 2012

Test Period : Jul 21, 2012 To Jul 27, 2012

#### ( $\Pi$ ) RoHS Limits:

Restricted Substances	<u>Limits</u>
Cadmium (Cd) Content	0.01% (100ppm)
Lead (Pb) Content	0.1% (1000ppm)
Mercury (Hg) Content	0.1% (1000ppm)
Chromium VI (Cr <sup>6+</sup> ) Content	0.1% (1000ppm)

The above limits were quoted from Annex II of 2011/65/EU for homogeneous material.



#### Test Conducted

### (Ⅲ) Test Method:

Test Item	Test Method	Reporting Limit
Cadmium (Cd) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Lead (Pb) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
With reference to IEC 62321 edition 1.0:2008 in clause 7, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.		2 ppm
Chromium VI (Cr <sup>6+</sup> ) content	With reference to IEC 62321 edition 1.0:2008 in annex B, by boiling water extraction and determined by UV-Vis Spectrophotometer.	0.02 mg/kg with 50cm <sup>2</sup>

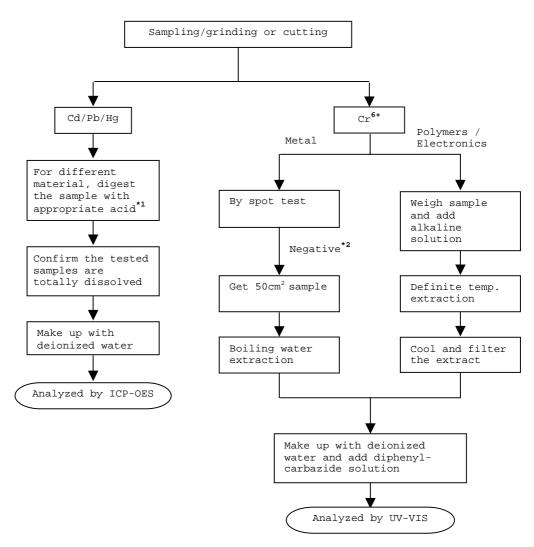
Remark: Reporting limit = Quantitation limit of analyte in sample



#### Test Conducted

#### (IV) Measurement Flowchart:

Test For Cd/Pb/Hg/Chromium (VI)
Reference Standard: IEC 62321 edition 1.0:2008





#### Test Conducted

#### Remarks:

\*1: List Of Appropriate Acid:

<u>Material</u>	Acid Added For Digestion
Polymers	HNO <sub>3,</sub> HCl,HF,H <sub>2</sub> O <sub>2,</sub> H <sub>3</sub> BO <sub>3</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.

End of Report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.



Test Conducted

#### Photo





Report No. RLNBE000088420001

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YUEQING DONGFENG FASTENERS COMPANY

Address

NO528, SOUTH STREET, BEIBAIXIANG TOWN, YUEQING CITY. ZHEJIANG

PROVINCE, CHINA.

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

Sample Name

Steel

Sample Received Date

Jul. 2, 2012

**Testing Period** 

Jul. 2, 2012 to Jul. 5, 2012

**Test Requested** 

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg),

Hexavalent Chromium(Cr(VI)) in the submitted sample(s).

#### **Test Method**

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis	1

Test Result(s)

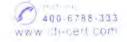
Please refer to the following page(s).

De Mias Reviewed by Jul. 5, 2012 Chen Qian

Approved Signatory

No. 13431686

Centre Testing International(Ningbo)Co.,ltd. 7-8/F/.,Building A,No.750.Chuangyuan Road,Gaoxin District,Ningbo,Zhengjiang,China





Report No. RLNBE000088420001

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Test Result(s)

Tested Item(s)	Content
Lead(Pb)	N.D.
Cadmium(Cd)	N.D.
Mercury(Hg)	N.D.

Tested Item(s)	Conclusion
Hexavalent Chromium(Cr(VI))	Negative

Tested Sample/Part Description

Metal with silver-grey cover layer

Note:

The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

-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  $50cm^2$  sample surface area used.

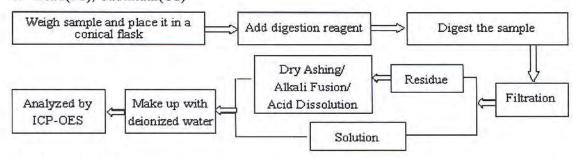


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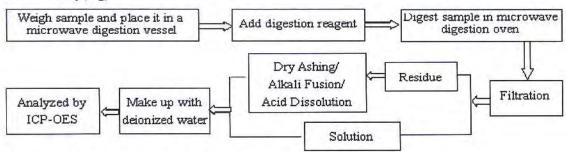
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#### **Test Process**

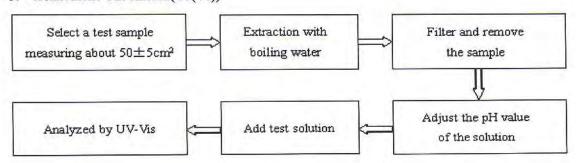
#### 1. Lead(Pb), Cadmium(Cd)



#### 2. Mercury(Hg)



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

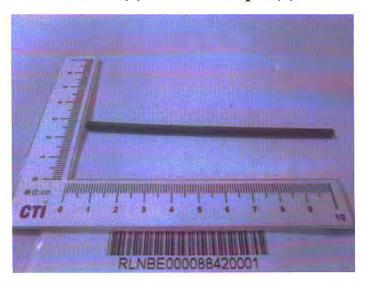




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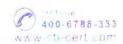
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Photo(s) of the sample(s)



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Test Report Number: TWNC00238069

Applicant: Littelfuse, Philippines Inc.

LIMA Technology Center, Lipa City,

Malvar, Batangas

Sample Description:

One (1) group of submitted samples said to be:

Part Description : Metal Part Number : 65Mn

Date Sample Received : Dec 22, 2011
Date Test Started : Dec 23, 2011

Test Conducted:

As requested by the applicant, for details please refer to attached pages.

Authorized By: On Behalf Of Intertek Testing Services Taiwan Limited



K. Y. Liang
Director

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Date : Dec 27, 2011

Page 1 of 5



#### Test Conducted

#### ( I ) Test Result Summary :

,				
Mask Thom	Result (ppm)			
Test Item	(1)	(2)		
Heavy Metal				
Cadmium (Cd) content	ND	ND		
Lead (Pb) content	ND	ND		
Mercury (Hg) content	ND	ND		
Chromium VI (Cr <sup>6+</sup> ) content (mg/kg with 50cm <sup>2</sup> )	Negative	Negative		
Chiromitam vi (Ci / Concent (mg/kg with 500m /	(< 0.02)	(< 0.02)		

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg

ND = Not detected
< = Less than</pre>

mg/kg with 50cm<sup>2</sup> = milligram per kilogram with 50 square centimetre Negative = A negative test result indicated positive observation was not found at the time of Test.

#### Tested Components

- (1) Silvery Metal Base Material
- (2) Silvery Plating Layer

Responsibility of Chemist : Irene Chiou / Kevin Liu

Date Sample Received : Dec 22, 2011

Test Period : Dec 23, 2011 To Dec 26, 2011

#### (II) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd) Content	0.01% (100ppm)
Lead (Pb) Content	0.1% (1000ppm)
Mercury (Hg) Content	0.1% (1000ppm)
Chromium VI (Cr <sup>6+</sup> ) Content	0.1% (1000ppm)

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.



### Test Conducted

#### (Ⅲ) Test Method:

Test Item	Test Method	Reporting Limit
Cadmium (Cd) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Lead (Pb) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Mercury (Hg) content	With reference to IEC 62321 edition 1.0:2008 in clause 7, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Chromium VI (Cr <sup>6+</sup> ) content	With reference to IEC 62321 edition 1.0:2008 in annex B, by boiling water extraction and determined by UV-Vis Spectrophotometer.	0.02 mg/kg with 50cm <sup>2</sup>

Remark: Reporting limit = Quantitation limit of analyte in sample

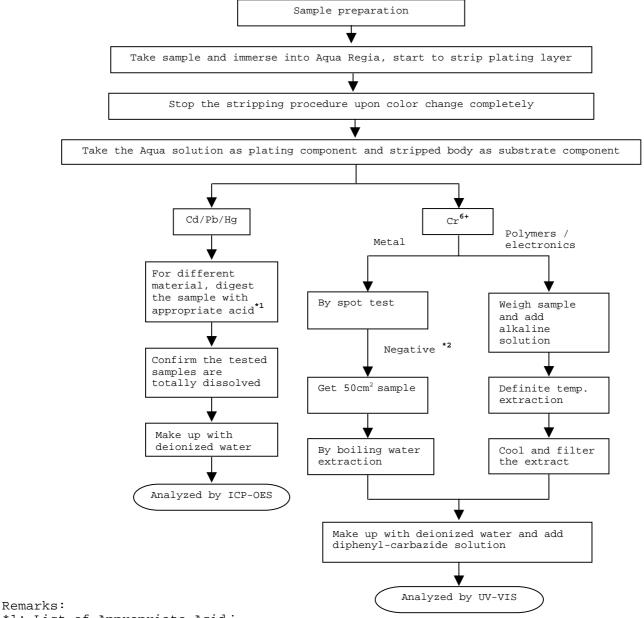


Test Conducted

(IV) Measurement Flowchart:

Test for Cd/Pb/Hg/Chromium (VI)

Reference Standard: IEC 62321 edition 1.0:2008



\*1: List of Appropriate Acid:

dibe of appropriate acta	
Material	Acid Added for Digestion
Polymers	HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>3</sub> BO <sub>3</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.

End of Report

Page 4 of 5



Test Conducted

Number: TWNC00238069

### Photo







No. SHAEC1203308101

Date: 21 Mar 2012

Page 1 of 8

JIAGANG SYNTHETIC MATERIALS CO LTD OF JIAXING SHITONG ROAD.XIUZHOU INDUSTRY GARDEN OF JIAXING

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

SGS Job No. :

SP12-006094 - SH

Composition:

Epoxy and Hardener

Supplier:

Jiagang Synthetic Materials Co Ltd of Jiaxing

Model No. : Date of Sample Received : 910(black) 15 Mar 2012

Testing Period :

15 Mar 2012 - 21 Mar 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, 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.

Fan Jingjie, JJ Approved Signatory

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No. SHAEC1203308101

Date: 21 Mar 2012

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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SHA12-033081.001 Black solid block

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	001
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 (Cr(VI))	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg		ND
Monobromobiphenyl		mg/kg	5	ND
Dibromobiphenyl	1.4	mg/kg	5	ND
Tribromobiphenyl	104	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
	170	mg/kg	5	ND
Decabromobiphenyl	1,000	mg/kg	14	ND
Sum of PBDEs Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report	No. SHAEC120330810	1	Date: 21	Mar 2012	Page 3 of 8
Test Item(s)	<u>Limit</u>	Unit	MDL	001	
Dibromodiphenyl ether	190	mg/kg	5	ND	
Tribromodiphenyl ether	1.0	mg/kg	5	ND	
Tetrabromodiphenyl ether	1,9	mg/kg	5	ND	
Pentabromodiphenyl ether	1 4	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether		mg/kg	5	ND	
	(4)	mg/kg	5	ND	
		mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether Octabromodiphenyl ether Nonabromodiphenyl ether	-	mg/kg mg/kg mg/kg	5 5 5	ND ND ND	

#### Notes:

### Polynuclear Aromatic Hydrocarbons (PAH)

Test Method: With reference to ZEK 01.2-08 of German ZLS and its amendments, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	MDL	001
Total 18 PAHs	mg/kg		ND
Naphthalene(NAP)	mg/kg	0.2	ND
Acenaphthylene(ANY)	mg/kg	0.2	ND
Acenaphthene(ANA)	mg/kg	0.2	ND
Fluorene(FLU)	mg/kg	0.2	ND
Phenanthrene(PHE)	mg/kg	0.2	ND
Anthracene(ANT)	mg/kg	0.2	ND
Fluoranthene(FLT)	mg/kg	0.2	ND
Pyrene(PYR)	mg/kg	0.2	ND
Benzo(a)anthracene(BaA)	mg/kg	0.2	ND
Chrysene(CHR)	mg/kg	0.2	ND

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<sup>(1)</sup> The maximum permissible limit is quoted from directive 2011/65/EU, Annex II



Test Report	No. SHAEC1203308101		Date: 21 M	Mar 2012	Page 4 of 8
Test Item(s)	<u>u</u>	<u>Jnit</u>	MDL	<u>001</u>	
Benzo(b)fluoranthene(BbF)	mg	g/kg	0.4	ND	
Benzo(j)fluoranthene(BjF) Benzo(k)fluoranthene(BkF)	mę	g/kg	0.2	ND	
Benzo(a)pyrene(BaP)	m	g/kg	0.2	ND	
Indeno(1,2,3-c,d)pyrene(IPY)	m	g/kg	0.2	ND	
Dibenzo(a,h)anthracene(DBA)	m	ıg/kg	0.2	ND	
Benzo(g,h,i)perylene(BPE)	m	ig/kg	0.2	ND	
Benzo(e)pyrene(BeP)	m	ng/kg	0.2	ND	

### PFOS (Perfluorooctane Sulfonates)

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

Test Item(s)	Limit	Unit	MDL	001
Perfluorooctane Sulfonates (PFOS) and related	1,000	mg/kg	10	ND

Acid, Metal Salt and Amide

#### Notes:

Max. limit specified by commission regulation (EU) No. 757/2010 (previously restricted under entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006)

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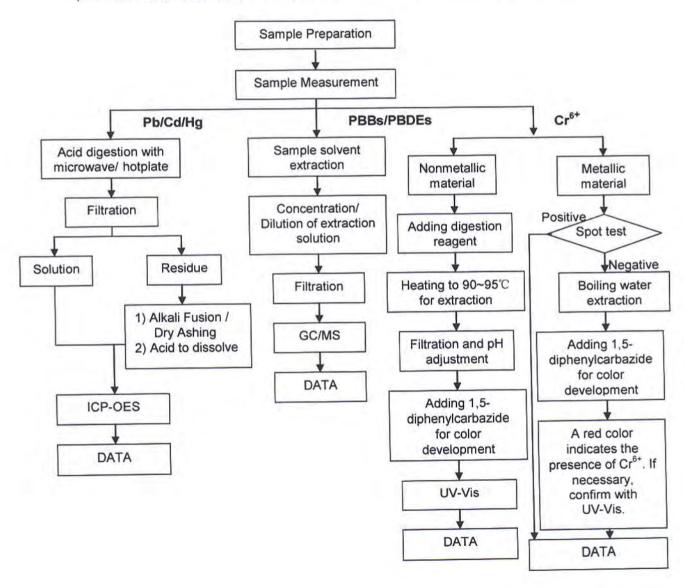
Date: 21 Mar 2012

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#### **ATTACHMENTS**

### **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Jan Shi/Yoyo Wang/Allen Xiao/Gary Xu
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu/ Elim Lin
- These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded)



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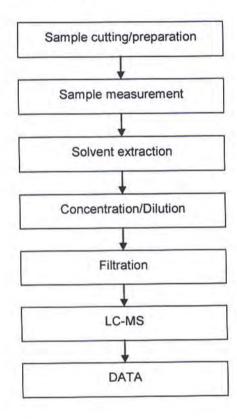
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### **PFOS Testing Flow Chart**

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



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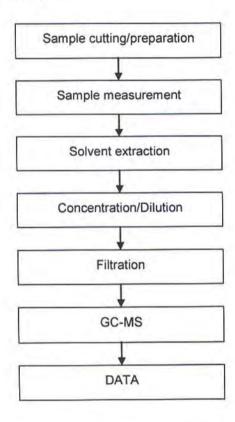
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#### **PAHs Testing Flow Chart**

- 1) Name of the person who made testing: Jessie Huang
- 2) Name of the person in charge of testing: Elim Lin



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Date: 21 Mar 2012

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Sample photo:



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Applicant

YUEQING DONGFENG FASTENERS COMPANY

Address

NO528, SOUTH STREET, BEIBAIXIANG TOWN, YUEQING CITY. ZHEJIANG

PROVINCE, CHINA.

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

Sample Name

Zinc Plating

Sample Received Date

Jul. 2, 2012

**Testing Period** 

Jul. 2, 2012 to Jul. 5, 2012

**Test Requested** 

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)) in the plating of submitted sample(s).

#### **Test Method**

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	Plating layer test method (In-house method) and IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Cadmium(Cd)	Plating layer test method (In-house method) and IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Mercury(Hg)	Plating layer test method (In-house method) and IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis	1

Test Result(s)

Please refer to the following page(s).

Reviewed by

Jul. 5, 2012

Chen Qian Approved Signatory

No. 13431686

Centre Testing International(Ningbo)Co.,ltd. 7-8/F/.,Building A,No.750.Chuangyuan Road,Gaoxin District,Ningbo,Zhengjiang,China





Report No. RLNBE000088420002

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Test Result(s)

Tested Item(s)	Content
Lead(Pb)	N.D.
Cadmium(Cd)	N.D.
Mercury(Hg)	N.D.
Tested Item(s)	Conclusion

Tested Sample/Part Description Light blue plating

Note: The washed plating had been dissolved totally tested for Lead, Cadmium,

Mercury.

Hexavalent Chromium(Cr(VI))

-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.

Negative



Page 3 of 4 Report No. RLNBE000088420002 **Test Process** 1. Lead(Pb), Cadmium(Cd) Take out the substrate after Select a test sample Add digestion reagent the plating had been dissolved measuring about 50cm2 Transfer the plating digestive Make up with Analyzed by ICP-OES deionized water solution into a volumetric flask 2. Mercury(Hg) Take out the substrate after Select a test sample Add digestion reagent the plating had been dissolved measuring about 50cm2 Transfer the plating digestive Make up with Analyzed by ICP-OES solution into a volumetric flask deionized water 3. Hexavalent Chromium(Cr(VI)) Filter and remove Extraction with Select a test sample the sample measuring about 50±5cm2 boiling water Adjust the pH value

Add test solution

Analyzed by UV-Vis

of the solution



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Photo(s) of the sample(s)



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Applicant

YUEQING HUIFENG ELECTROPLATE FACTORY

Address

NO528,XIANGTA WEST ROAD,BEIBAIXIANG TOWN,YUEQING CITY.

ZHEJIANG PROVINCE, CHINA.

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

Sample Name

Tin Plating

Sample Received Date

Jul. 12, 2012

**Testing Period** 

Jul. 12, 2012 to Jul. 14, 2012

**Test Requested** 

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)) in the plating of submitted sample(s).

### **Test Method**

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	Plating layer test method (In-house method) and IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Cadmium(Cd)	Plating layer test method (In-house method) and IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis	1

Test Result(s)

Please refer to the following page(s).

ested by Sha Charles Reviewed by

Jul. 14, 2012

Wei Mias

Chen Qian

Approved Signatory

No. 13431669

Centre Testing International(Ningbo)Co.,ltd. 7-8/F/.,Building A,No.750.Chuangyuan Road,Gaoxin District,Ningbo,Zhengjiang,China





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Page 2 of 4

Test Result(s)

rest Resurt(s)	
Tested Item(s)	Content
Lead(Pb)	258 mg/kg
Cadmium(Cd)	N.D.
Mercury(Hg)	N.D.

Tested Item(s)	Conclusion
Hexavalent Chromium(Cr(VI))	Negative

**Tested Sample/Part Description** 

Silvery plating

Note:

The washed plating had been dissolved totally tested for Lead, Cadmium,

Mercury.

-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.



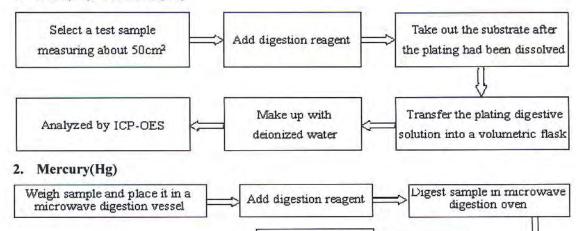
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Filtration

### **Test Process**

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



Dry Ashing/

Alkali Fusion/

Acid Dissolution

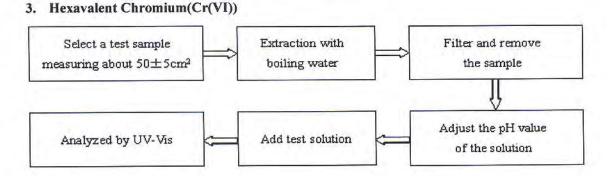
Solution

Residue

Early 1171 on will con-

Analyzed by ICP-OES Make up with

deionized water

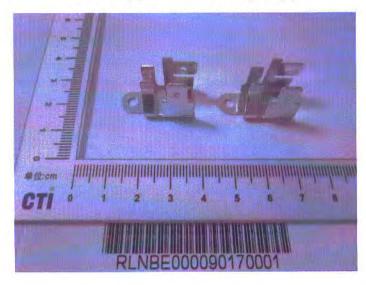




Report No. RLNBE000090170001

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Photo(s) of the sample(s)



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