

Test Report No. 1997551

Date : 18-Apr-2011

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Client : Sumiko Leadframe (Thailand) Co., Ltd.
1/49 moo 5 Rojana Industrial Park
Tambol Kanham, Amphur Uthai Phra Nakhon Si Ayutthaya 13210 Thailand

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

Sample Description : A 194 with Ni, Pd, Au (PPF Plating)

Sample No. : 2046120

Sample Condition : As per attached photograph

Sample Receiving Date : 8-Apr-2011

Testing Period : 08-Apr-2011 to 18-Apr-2011

Test Requested : In accordance with the RoHS Directive 2002/95/EC and its amendment directives

Test Method : (1) With reference to IEC 62321:2008 for Lead content, Analysis was performed by ICP-OES.
 (2) With reference to IEC 62321:2008 for Cadmium content, Analysis was performed by ICP-OES.
 (3) With reference to IEC 62321:2008 for Mercury content, Analysis was performed by ICP-OES.
 (4) With reference to IEC 62321:2008 for Hexavalent Chromium by Colorless and Colored Chromate Coating on Metals/ Colorimetric Method, Analysis was performed by UV-Vis spectrometry.
 (5) With reference to IEC 62321:2008 for PBB/PBDE content, Analysis was performed by GC/MS.

Test Results : Please refer to next page.

CONCLUSION

Based on the performed tests on submitted samples, the result comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS (Thailand) Limited



Pornpana Lirathpong
Hardlines Testing Manager

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TEST RESULTS

Test results by chemical method (Unit: mg/kg)

| Test Item (s): | Method (Refer to) | Result (1) | MDL | RoHS Limit |
|---|-------------------|------------|-----|------------|
| Lead (Pb) | (1) | n.d. | 2 | 1000 |
| Cadmium (Cd) | (2) | n.d. | 2 | 100 |
| Mercury (Hg) | (3) | n.d. | 2 | 1000 |
| Hexavalent Chromium (CrVI) by Spot test / boiling water extraction (optional) | (4) | Negative | - | # |
| sum of PBBs | (5)* | n.d. | - | 1000 |
| Monobromobiphenyl | | n.d. | 5 | - |
| Dibromobiphenyl | | n.d. | 5 | - |
| Tribromobiphenyl | | n.d. | 5 | - |
| Tetrabromobiphenyl | | n.d. | 5 | - |
| Pentabromobiphenyl | | n.d. | 5 | - |
| Hexabromobiphenyl | | n.d. | 5 | - |
| Heptabromobiphenyl | | n.d. | 5 | - |
| Octabromobiphenyl | | n.d. | 5 | - |
| Nonabromobiphenyl | | n.d. | 5 | - |
| Decabromobiphenyl | | n.d. | 5 | - |

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TEST RESULTS

Test results by chemical method (Unit: mg/kg)

| Test Item (s): | Method (Refer to) | Result (1) | MDL | RoHS Limit |
|--------------------------|-------------------|------------|-----|------------|
| Sum of PBDEs | (5)* | n.d. | - | 1000 |
| Monobromodiphenyl ether | | n.d. | 5 | - |
| Dibromodiphenyl ether | | n.d. | 5 | - |
| Tribromodiphenyl ether | | n.d. | 5 | - |
| Tetrabromodiphenyl ether | | n.d. | 5 | - |
| Pentabromodiphenyl ether | | n.d. | 5 | - |
| Hexabromodiphenyl ether | | n.d. | 5 | - |
| Heptabromodiphenyl ether | | n.d. | 5 | - |
| Octabromodiphenyl ether | | n.d. | 5 | - |
| Nonabromodiphenyl ether | | n.d. | 5 | - |
| Decabromodiphenyl ether | | n.d. | 5 | - |

Test Part Description

Result (1) metal with plating

Note :

(a) mg/kg = ppm ; 0.1 wt% = 1000 ppm

(b) The results shown are based on the total weight of dry sample

(c) n.d. = Not Detected

(d) MDL = Method Detection Limit

(e) The exemption of DecaBDE in polymeric application according 2005/17/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008

(f) "-" = Not regulated

"Test(s) marked * on this Report are not included in the TISI Accreditation Schedule for our Laboratory"

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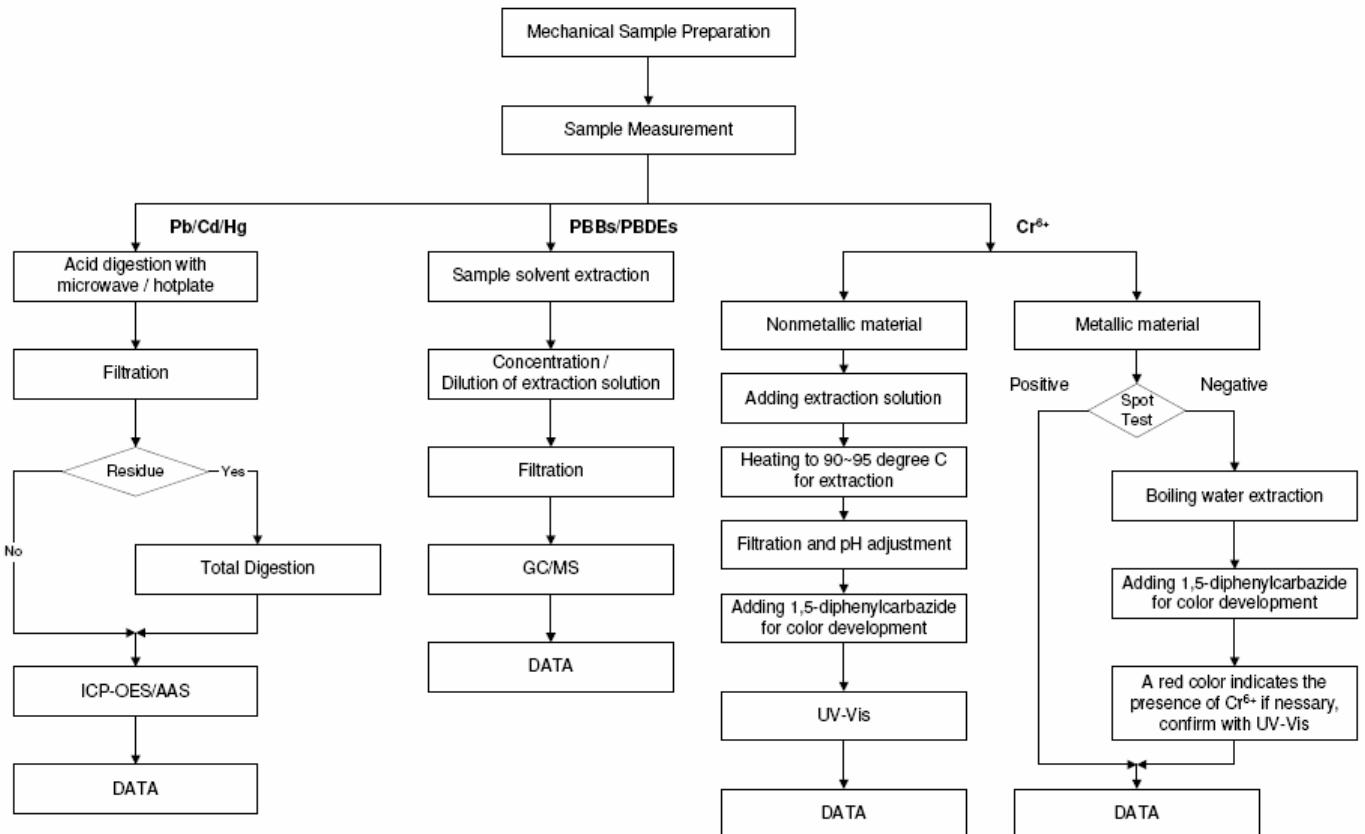
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Flow Chart for RoHS : Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing

1. Operator : Siam Polarwut
2. Section Chief : Laddawan Uranpitr
3. The sample was dissolved totally by pre-conditioning method according to below flowchart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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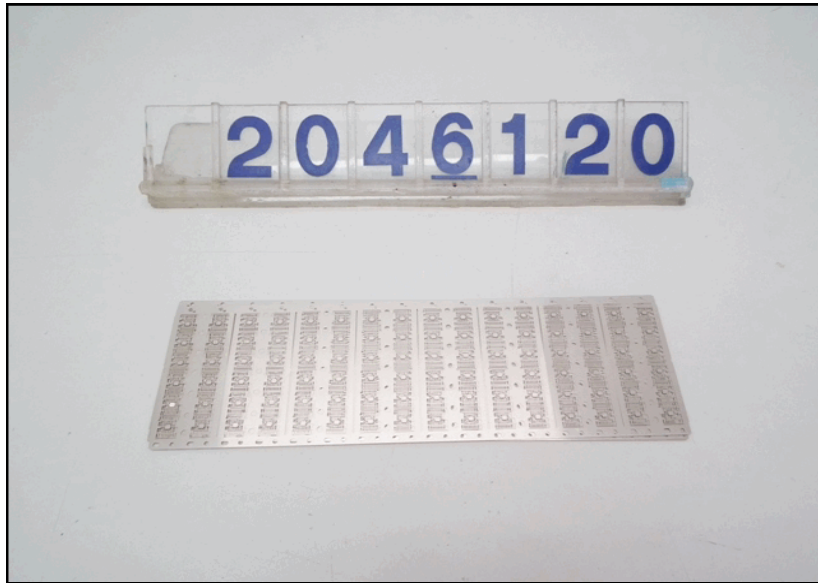
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SAMPLE/ATTACHMENT PICTURE



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

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