



Test Report

No. SH9154155/CHEM

Date: Aug. 10, 2009

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SHANGHAI SEEFULL ELECTRONIC CO.,LTD
6 ZHENYE RD. DONGJING INDUSTRIAL AREA SONGJIANG DISTRICT, SHANGHAI P.R. CHINA

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

Sample Name : AXIAL DIODE (A-405)
SGS Ref No. : 12078463
Model : A-405
Main Substance : PURE TIN+COPPER+EPOXY

Sample Receiving Date : Jul.30, 2009
Testing Period : Jul.30 – Aug.03, 2009

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 Cadmium content.
Analysis was performed by ICP-OES.
(2) With reference to IEC 62321:2008 for Lead 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 spot test /
Colorimetric Method.
(5) With reference to IEC 62321:2008 for PBBs / PBDEs content.
Analysis was performed by GC/MS.

Test Results : Please refer to next pages

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Sandy Hao
Lab Manager

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Member of the SGS Group (SGS SA)

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

| Test Item(s): | Method (refer to) | 1* | 2 | MDL | RoHS Limit |
|--|-------------------|-----|----------|-----|------------|
| Cadmium(Cd) | (1) | ND | ND | 2 | 100 |
| Lead (Pb) | (2) | ND | ND | 2 | 1000 |
| Mercury (Hg) | (3) | ND | ND | 2 | 1000 |
| Hexavalent Chromium (CrVI) | (4) | ND | --- | 2 | 1000 |
| Hexavalent Chromium (CrVI) by Spot test / boiling water extraction | (4) | --- | Negative | # | - |
| Sum of PBBs | (5) | ND | --- | - | 1000 |
| Monobromobiphenyl | | ND | --- | 5 | - |
| Dibromobiphenyl | | ND | --- | 5 | - |
| Tribromobiphenyl | | ND | --- | 5 | - |
| Tetrabromobiphenyl | | ND | --- | 5 | - |
| Pentabromobiphenyl | | ND | --- | 5 | - |
| Hexabromobiphenyl | | ND | --- | 5 | - |
| Heptabromobiphenyl | | ND | --- | 5 | - |
| Octabromobiphenyl | | ND | --- | 5 | - |
| Nonabromobiphenyl | | ND | --- | 5 | - |
| Decabromobiphenyl | | ND | --- | 5 | - |
| Sum of PBDEs | | ND | --- | - | 1000 |
| Monobromodiphenyl ether | | ND | --- | 5 | - |
| Dibromodiphenyl ether | | ND | --- | 5 | - |
| Tribromodiphenyl ether | | ND | --- | 5 | - |
| Tetrabromodiphenyl ether | | ND | --- | 5 | - |
| Pentabromodiphenyl ether | | ND | --- | 5 | - |
| Hexabromodiphenyl ether | | ND | --- | 5 | - |
| Heptabromodiphenyl ether | | ND | --- | 5 | - |
| Octabromodiphenyl ether | | ND | --- | 5 | - |
| Nonabromodiphenyl ether | ND | --- | 5 | - | |
| Decabromodiphenyl ether## | ND | --- | 5 | - | |

Test Part Description:

1. Black body part (mix all)
2. Silvery metal pin

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Note:

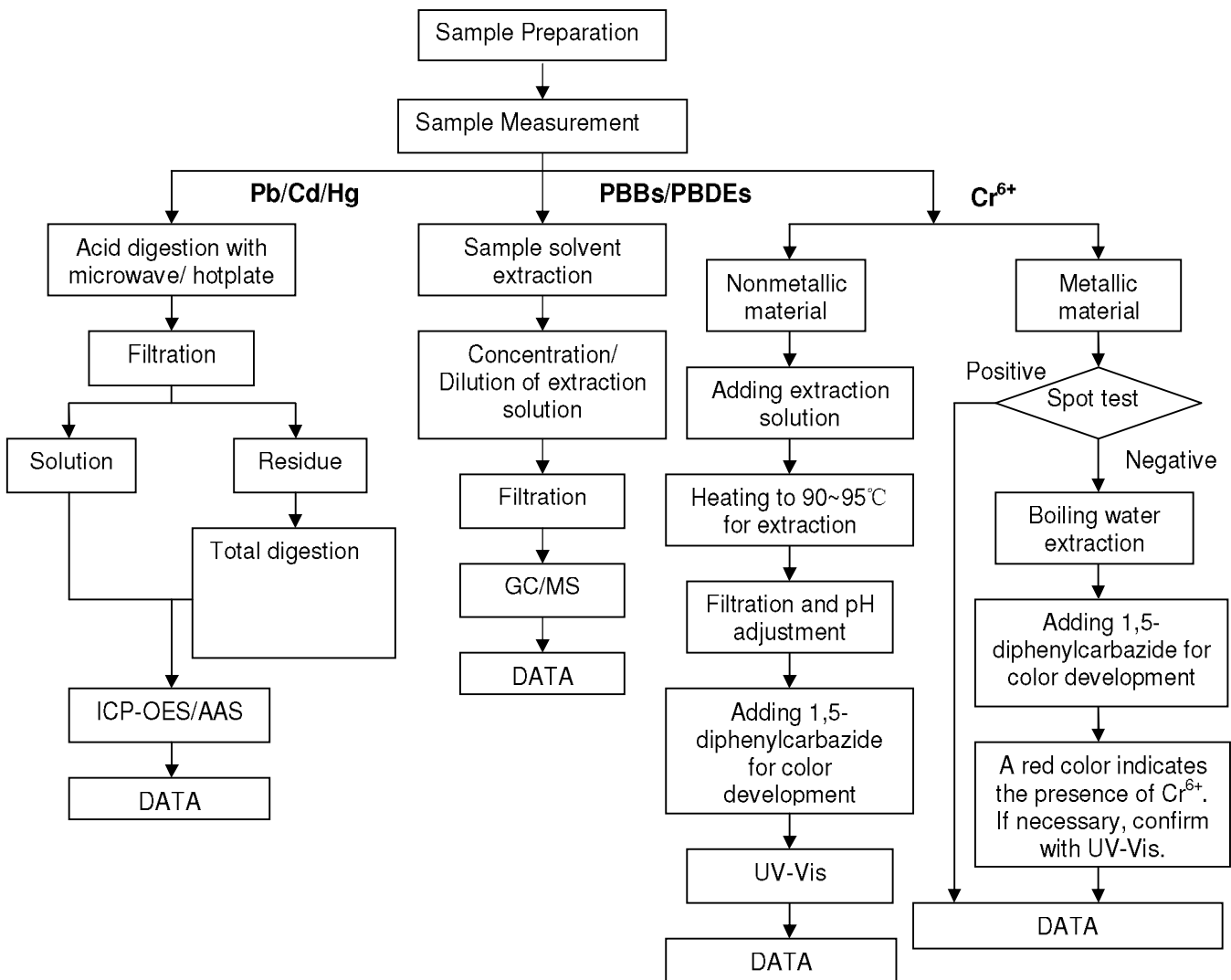
- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) # = Spot-test:
 - Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
 - (The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
 - Boiling-water-extraction:
 - Negative = Absence of CrVI coating
 - Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
 - 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
- (5) ##=The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE is included in the sum of PBDE after 01.07.2008.
- (6) "-" = Not Regulated
- (7) "---" = Not Conducted
- (8) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC
- (9) The test results are taken from report SH9148306-1/CHEM, Date:2009/08/06

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ATTACHMENTS

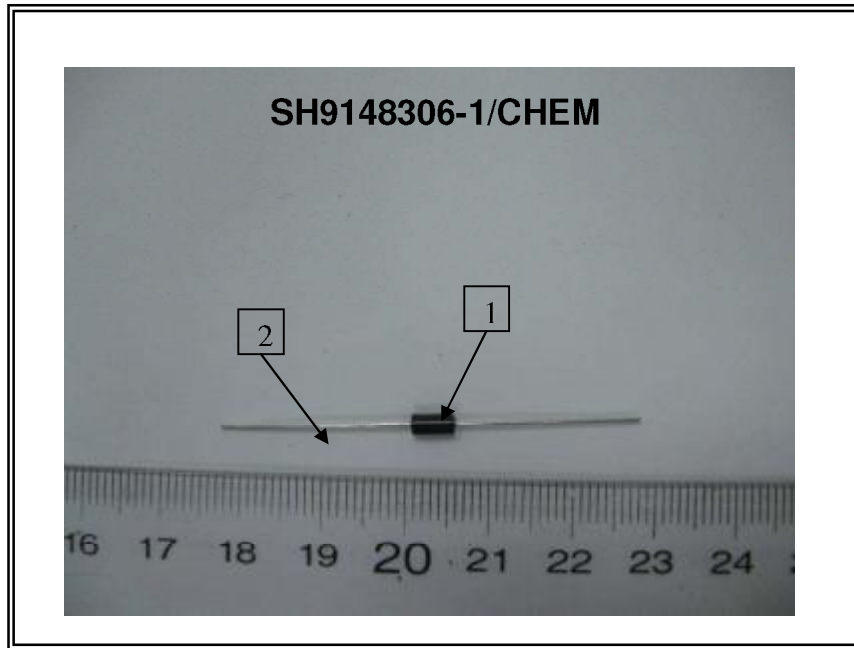
- 1) Name of the person who made measurement: Jeff Zhang/Even Xu/Frank Fang/Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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