

Test Report

No. CANEC0905830701

Date: 03 Dec 2009

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HIGHLAND ELECTRONICS CO.,LTD.
6/F, A-BUILDING,GAUNGHUI INDUSTRIAL ZONE,HUANGTIAN,BAO'AN,SHENZHEN
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as :
Through-hole LED lamp

SGS Job No. : 12276655 - SZ

SGS Internal Reference No. : 2.1

Date of Sample Received : 30 Nov 2009

Testing Period : 30 Nov 2009 - 03 Dec 2009

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 sample(s), the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.



Manson Yang
Sr. Engineer

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Test Results:

ID for specimen 1 : CAN09-058307.001
 Description for specimen 1 : Transparent palstic (semi-product)

RoHS Directive 2002/95/EC

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

Note:

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

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ID for specimen 2 : CAN09-058307.002
 Description for specimen 2 : Silvery metal (semi-product)

RoHS Directive 2002/95/EC

| Test Item(s) | Unit | Test Method (Reference) | Result | MDL | Limit |
|--|-------|-------------------------|----------|-----|-------|
| Cadmium (Cd) | mg/kg | IEC 62321:2008, ICP-OES | N.D. | 2 | 100 |
| Lead (Pb) | mg/kg | IEC 62321:2008, ICP-OES | N.D. | 2 | 1000 |
| Mercury (Hg) | mg/kg | IEC 62321:2008, ICP-OES | N.D. | 2 | 1000 |
| Hexavalent Chromium (CrVI) by boiling water extraction | - | IEC 62321:2008, UV-Vis | Negative | ◇ | # |

Note:

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

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
 (The tested sample should be further verified by boiling-water-extraction method if the spot test result is negative or cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
 Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

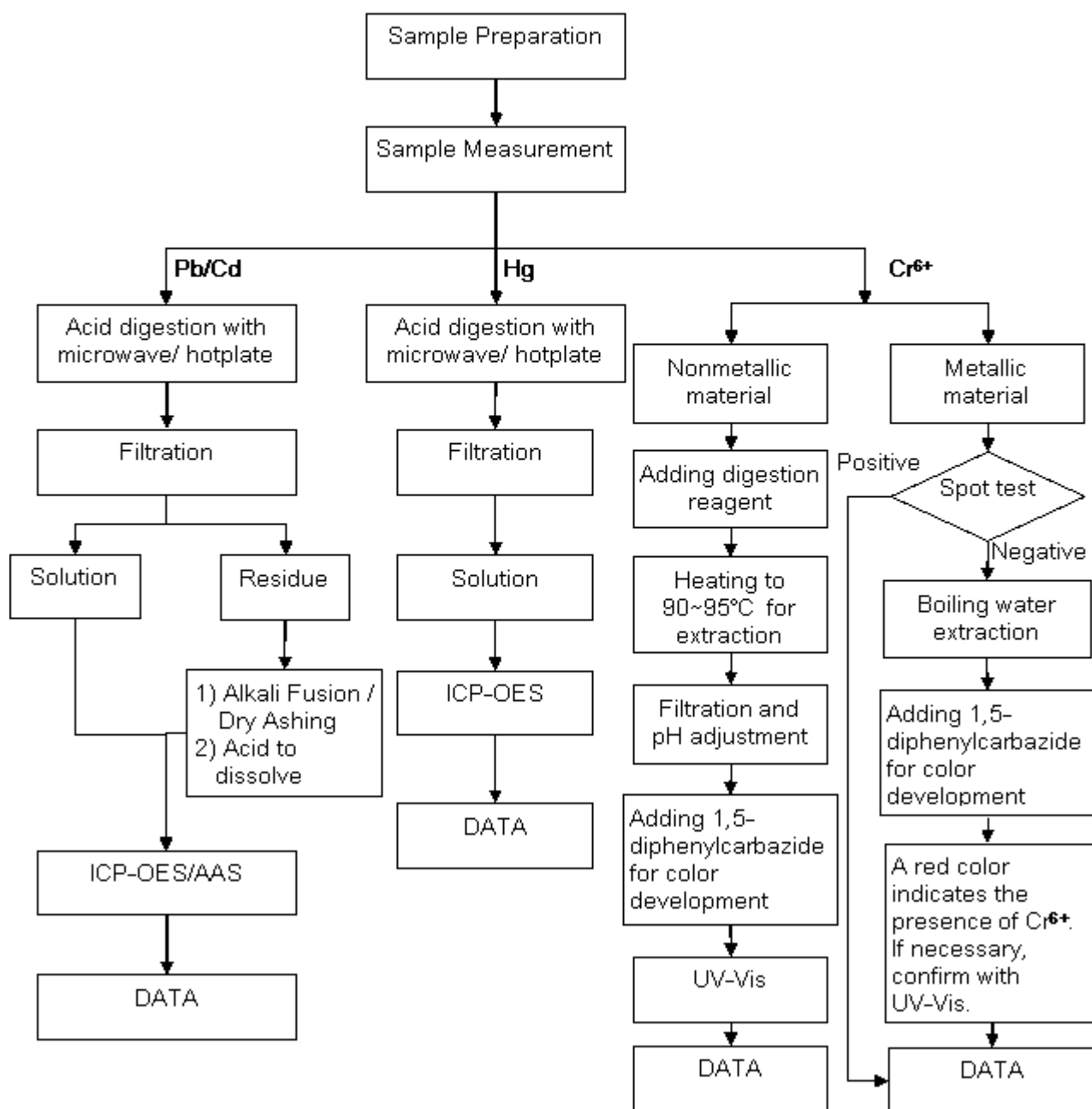
5. # = Positive indicates the presence of CrVI on the tested areas.
 Negative indicates the absence of CrVI on the tested areas.
6. "-" = Not regulated

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ATTACHMENTS

Testing Flow Chart

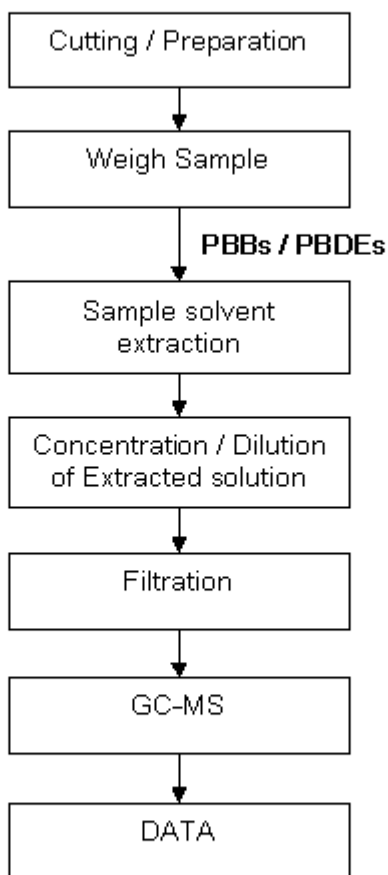
- 1) Name of the person who made measurement: Bella Wang
- 2) Name of the person in charge of measurement: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ test method excluded).



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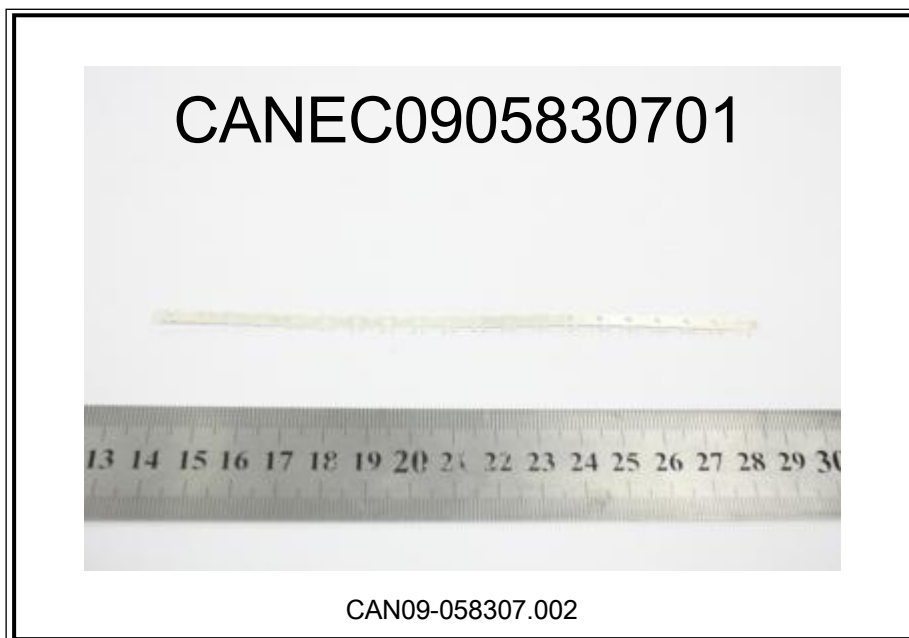
Testing Flow Chart

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



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Sample photo:



SGS authenticate the photo on original report only
*** End of Report ***

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