

## Test Report

No. : CE/2012/44926 Date : 2012/05/03 Page : 1 of 9

ELEKTRISOLA (MALAYSIA) SDN. BHD.  
JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



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

Sample Description : ELEKTRISOLA SOLABOND SELF-BONDING INSULATION VARNISH  
Style/Item No. : DS-,FS-, HS-, IS-, KS-, MS-, OS-, PS- series  
Sample Receiving Date : 2012/4/23  
Testing Period : 2012/4/23 TO 2012/04/30

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

  
  
Chenyu Kung / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory – Taipei

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# Test Report

No. : CE/2012/44926 Date : 2012/05/03 Page : 2 of 9

ELEKTRISOLA (MALAYSIA) SDN. BHD.  
 JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



## Test Result(s)

PART NAME No.1 : BROWN LUMP

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.
Beryllium (Be)	mg/kg	With reference to US EPA Method 3050B for Beryllium Content. Analysis was performed by ICP-AES.	2	n.d.
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
PFOA (CAS No.: 335-67-1)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
<b>Sum of PBBs</b>			-	n.d.
Monobromobiphenyl	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	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.

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# Test Report

No. : CE/2012/44926 Date : 2012/05/03 Page : 3 of 9

ELEKTRISOLA (MALAYSIA) SDN. BHD.  
 JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



Test Item(s)	Unit	Method	MDL	Result
				No.1
<b>Sum of PBDEs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	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.
<b>Halogen</b>			mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	50	n.d.		
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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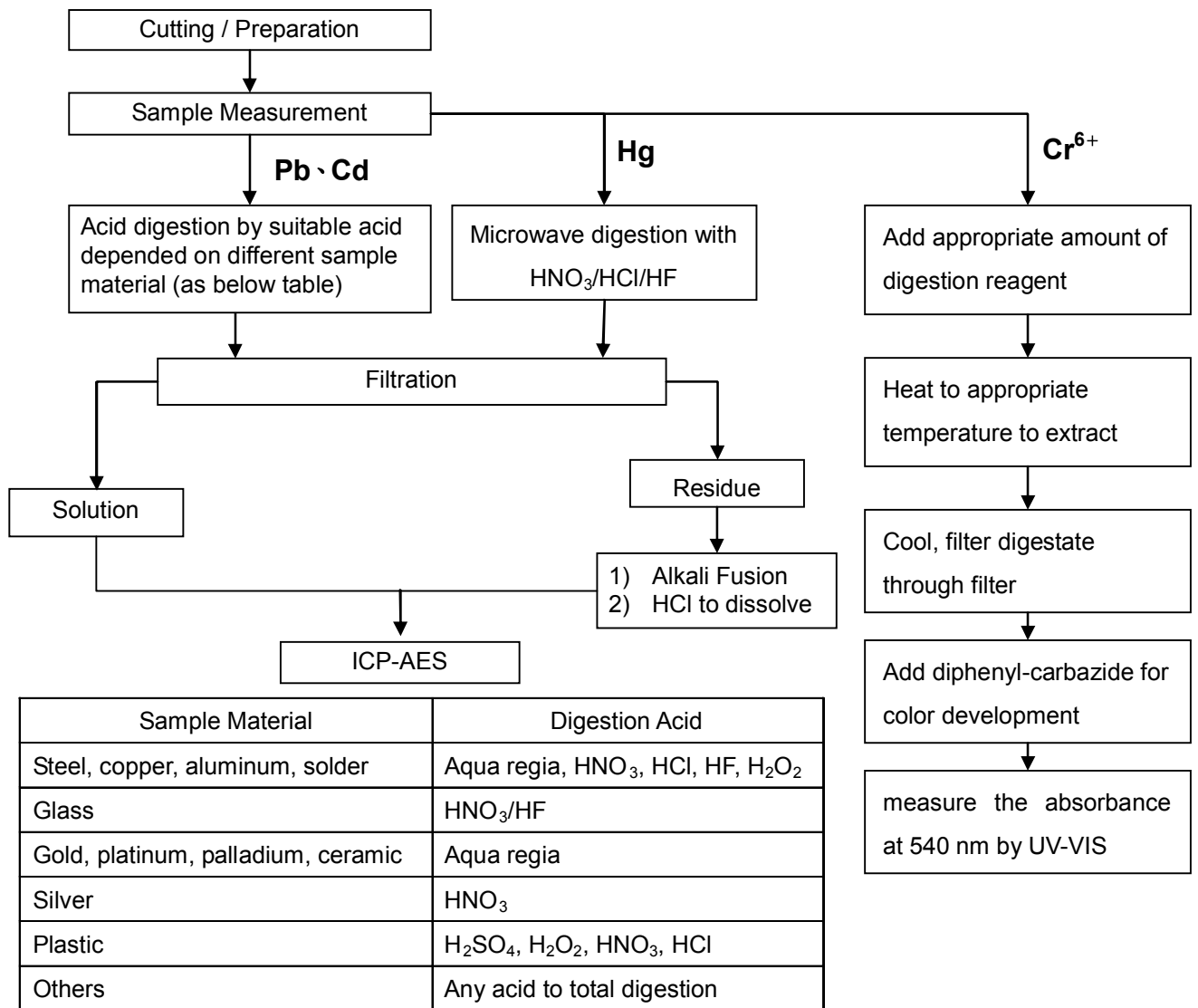
## Test Report

No. : CE/2012/44926 Date : 2012/05/03 Page : 4 of 9

ELEKTRISOLA (MALAYSIA) SDN. BHD.  
JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



- 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



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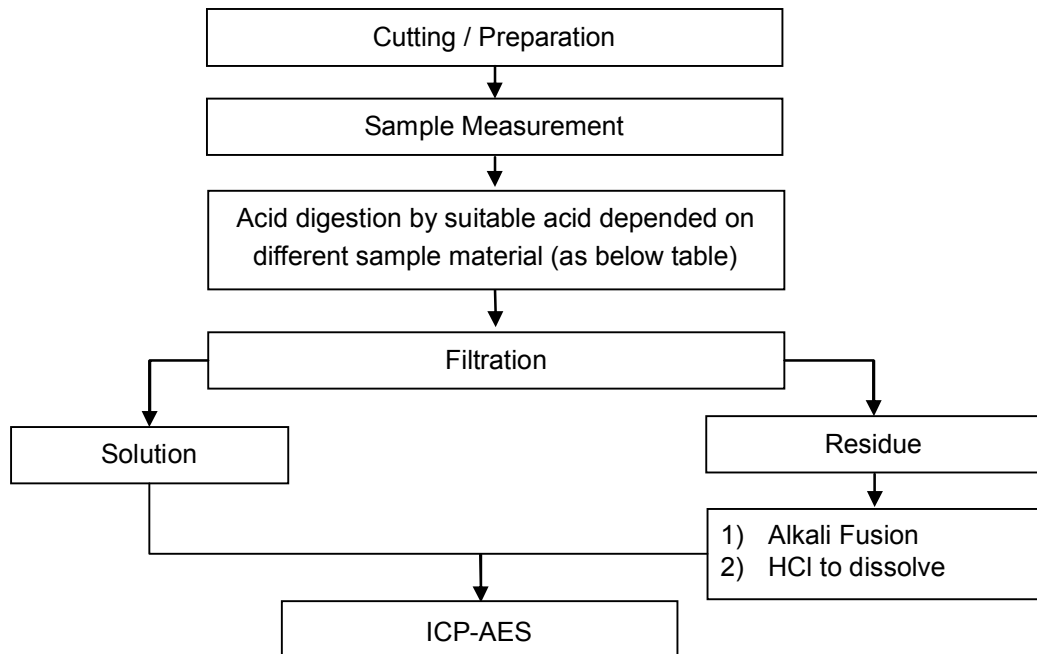
No. : CE/2012/44926 Date : 2012/05/03 Page : 5 of 9

ELEKTRISOLA (MALAYSIA) SDN. BHD.  
JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



- 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	Any acid to total digestion

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## Test Report

No. : CE/2012/44926 Date : 2012/05/03 Page : 6 of 9

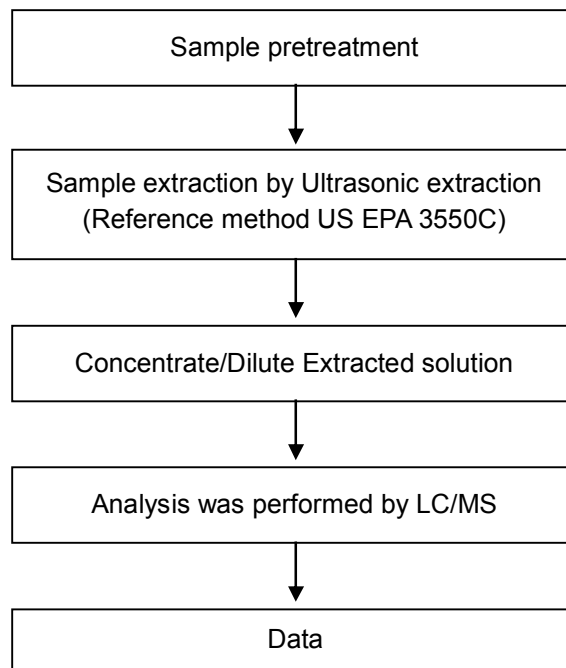
ELEKTRISOLA (MALAYSIA) SDN. BHD.  
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### Analytical flow chart of Ultrasonic extraction (LC/MS) procedure

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

■ Test Items: PFOA/PFOS、Bisphenol A、NP、OP



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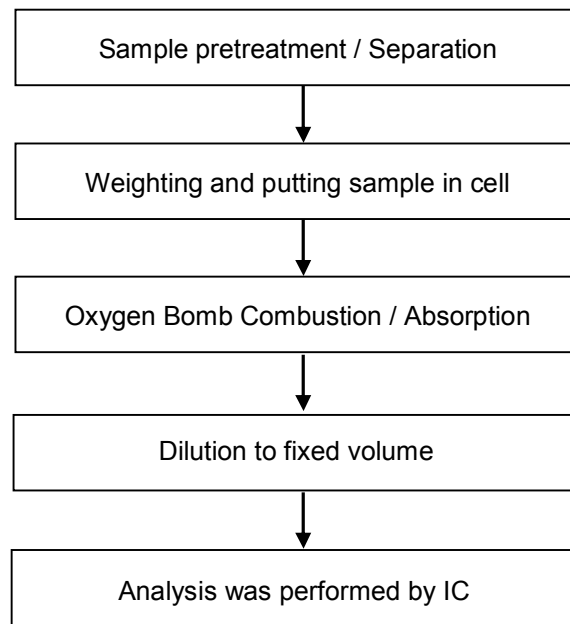
No. : CE/2012/44926 Date : 2012/05/03 Page : 7 of 9

ELEKTRISOLA (MALAYSIA) SDN. BHD.  
 JALAN DAMAI 1, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA



### Analytical flow chart of halogen content

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



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## Test Report

No. : CE/2012/44926 Date : 2012/05/03 Page : 8 of 9

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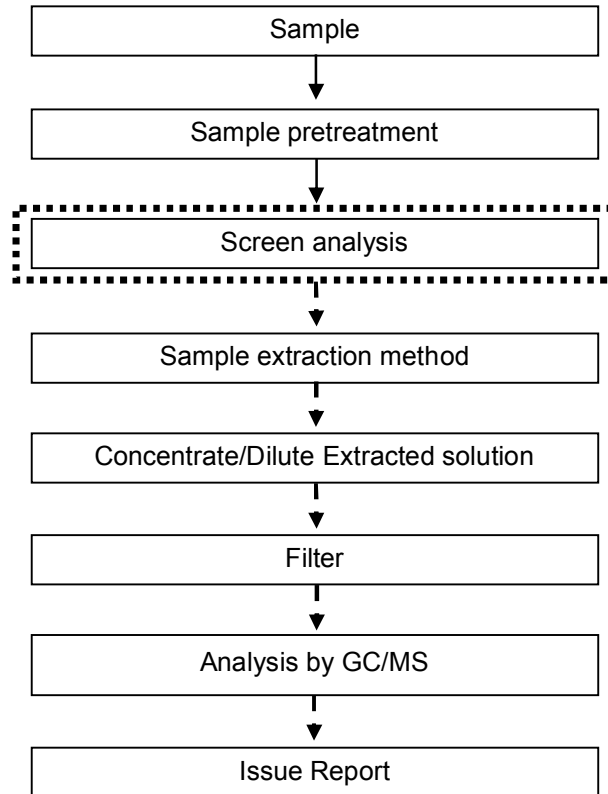


### Analytical flow chart

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

### 【 Test Items: PBB/PBDE, TBBP-A-bis 】

First testing process —> Optional screen process - - - - Confirmation process - ->



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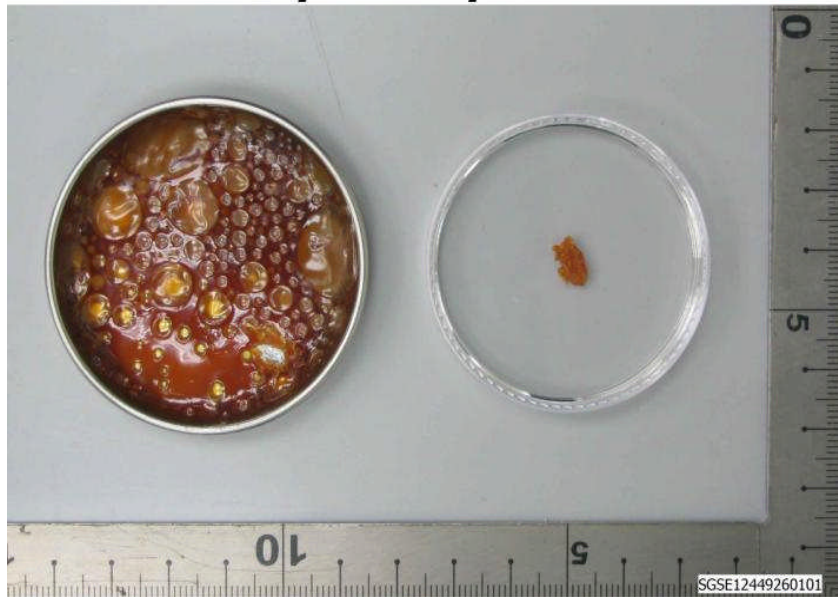
No. : CE/2012/44926 Date : 2012/05/03 Page : 9 of 9

ELEKTRISOLA (MALAYSIA) SDN. BHD.  
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

### CE/2012/44926



\*\* End of Report \*\*

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