

## Test Report

No. : CE/2014/22239

Date : 2014/02/19

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AISO PLASTICS CC  
P O BOX 6585, DUNSWART, 1508, GAUTENG, SOUTH AFRICA



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

Sample Submitted By : AISO PLASTICS CC  
Sample Description : NYLON CABLE TIES, NATURAL  
Style/Item No. : 100mm/2.5mm/18N-10/CABLE TIES - NATURAL, 150mm/3.5mm/30N-15/CABLE TIES - NATURAL, 200mm/3.5mm/30N-20/CABLE TIES - NATURAL, 300mm/3.5mm/30N-30/CABLE TIES - NATURAL, 200mm/4.8mm/50RN-20/CABLE TIES - NATURAL, 300mm/4.8mm/50IN-30/CABLE TIES - NATURAL, 400mm/4.8mm/50LN-40/CABLE TIES - NATURAL, 370mm H/D/7.8mm/120RN-37H/CABLE TIES - NATURAL, 400mm H/D/7.8mm/120RN-40H/CABLE TIES - NATURAL, 540mm H/D/13mm/540RB-54/CABLE TIES - NATURAL  
Buyer/Order No. : 20140127  
Sample Receiving Date : 2014/02/13  
Testing Period : 2014/02/13 TO 2014/02/19

**Test Requested** : As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.  
**Test Method** : Please refer to next page(s).  
**Test Result(s)** : Please refer to next page(s).  
**Conclusion** : Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Troy Chang, Manager Tech  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory – Taipei

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## Test Result(s)

PART NAME No.1 : TRANSLUCENT-WHITE PLASTIC (400mm H/D/7.8mm/120RN-40H/CABLE TIES - NATURAL)

Test Item(s)	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
<b>Sum of PBBs</b>	mg/kg		-	n.d.	1000
Monobromobiphenyl	mg/kg		5	n.d.	-
Dibromobiphenyl	mg/kg		5	n.d.	-
Tribromobiphenyl	mg/kg		5	n.d.	-
Tetrabromobiphenyl	mg/kg		5	n.d.	-
Pentabromobiphenyl	mg/kg		5	n.d.	-
Hexabromobiphenyl	mg/kg		5	n.d.	-
Heptabromobiphenyl	mg/kg		5	n.d.	-
Octabromobiphenyl	mg/kg		5	n.d.	-
Nonabromobiphenyl	mg/kg		5	n.d.	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.	-
<b>Sum of PBDEs</b>	mg/kg		-	n.d.	1000
Monobromodiphenyl ether	mg/kg		5	n.d.	-
Dibromodiphenyl ether	mg/kg		5	n.d.	-
Tribromodiphenyl ether	mg/kg		5	n.d.	-
Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
Pentabromodiphenyl ether	mg/kg		5	n.d.	-
Hexabromodiphenyl ether	mg/kg		5	n.d.	-
Heptabromodiphenyl ether	mg/kg		5	n.d.	-
Octabromodiphenyl ether	mg/kg		5	n.d.	-
Nonabromodiphenyl ether	mg/kg		5	n.d.	-
Decabromodiphenyl ether	mg/kg		5	n.d.	-

### Note :

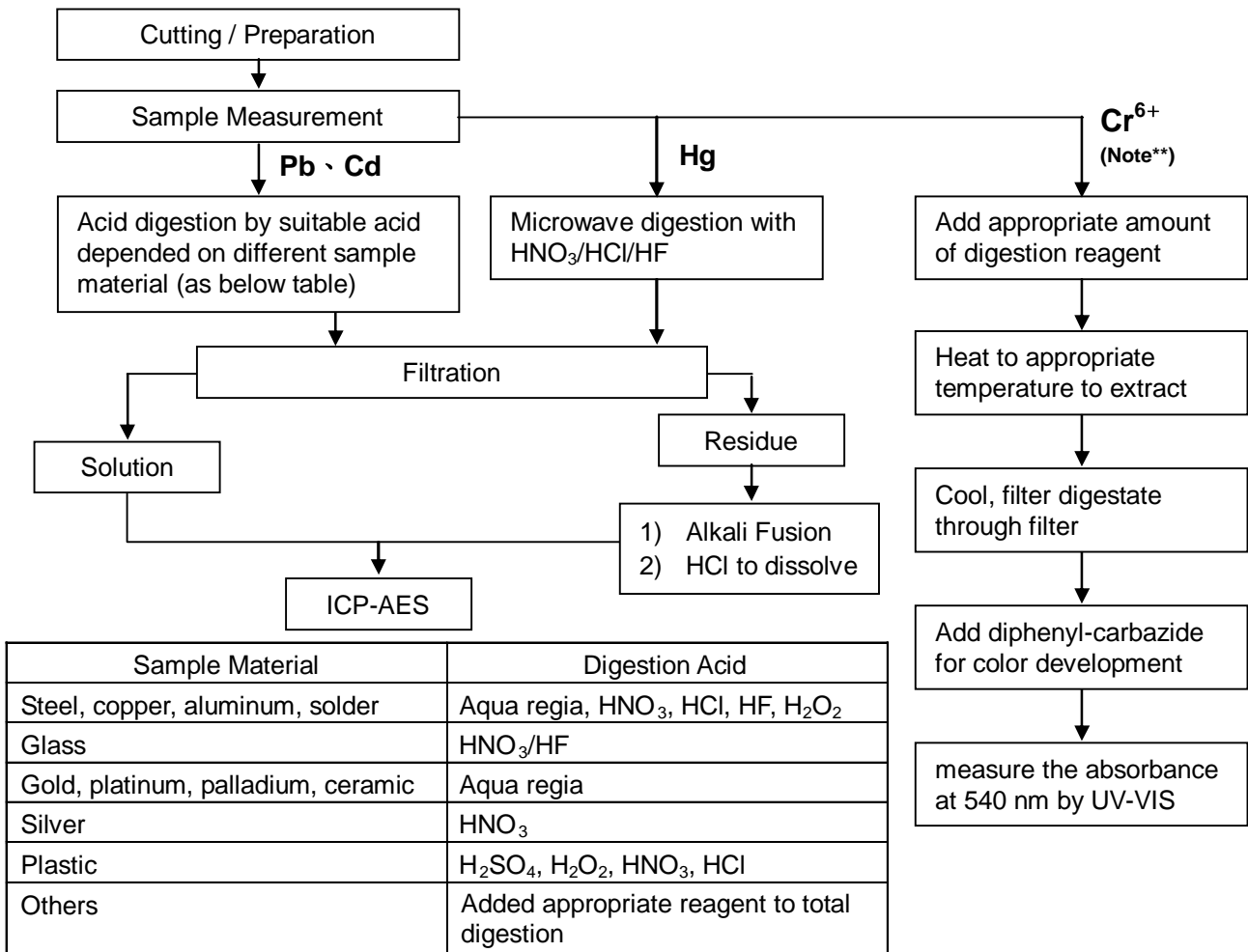
1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated

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- 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



**Note\*\* :** (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 °C.  
 (2) For metallic material, add pure water and heat to boiling.

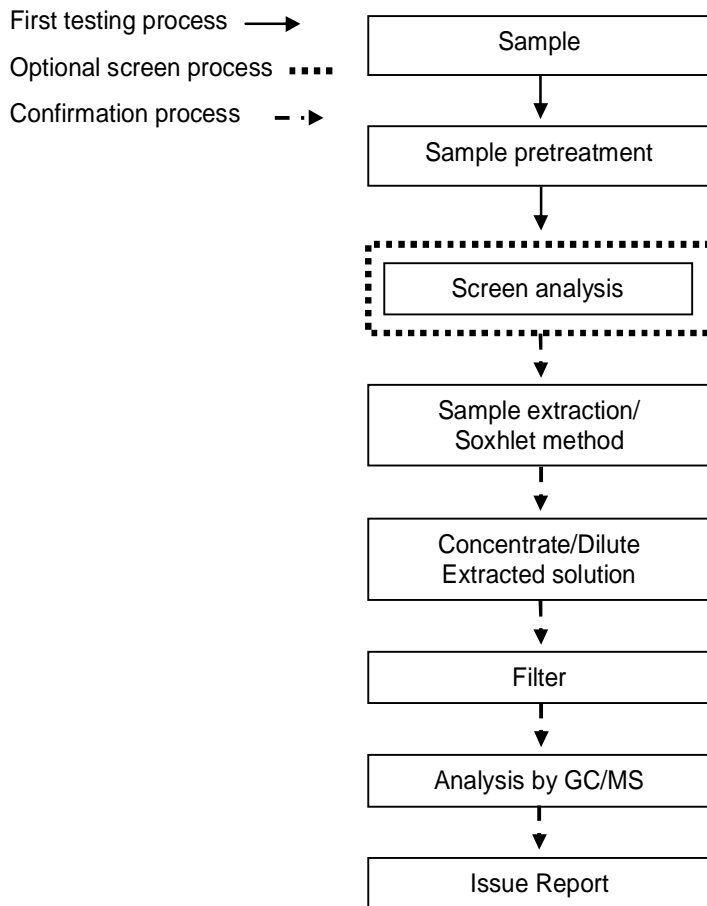
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### PBB/PBDE analytical FLOW CHART

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



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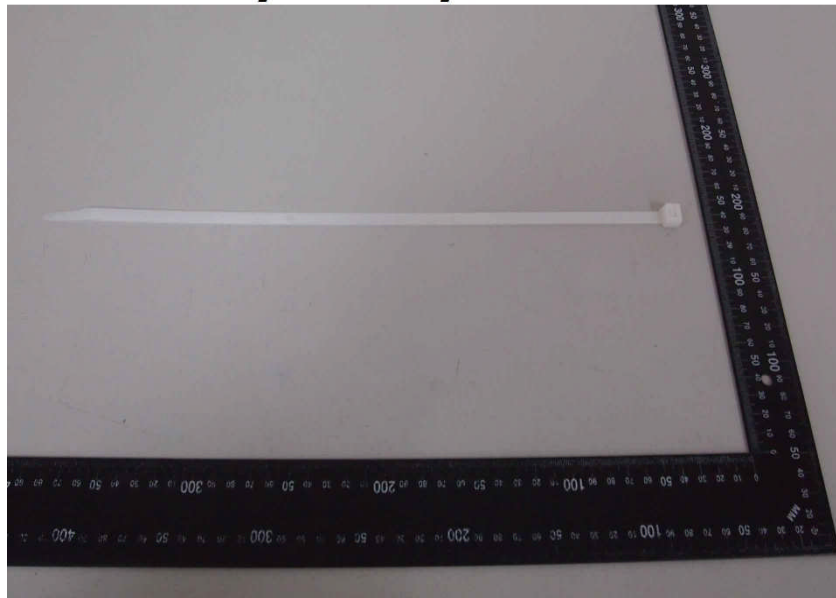
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

### CE/2014/22239



\*\* End of Report \*\*

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