

**Test Report No.** 2046942

Date : 13-Jul-2011

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**Client : The Bergquist Company  
301 Washington St., Cannon Falls,  
Minnesota, 55009 U.S.A.**

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

Sample Description : Hi-Flow (R) 650P1.0  
Sample No. : 2096115  
Sample Condition : As per attached photograph  
Manufacturer/Vendor : The Bergquist Company  
Country of Origin : United States of America (USA)  
Country of Destination : United States of America (USA)  
Buyer's Name : Rick Stewart

Sample Receiving Date : 7-Jul-2011  
Testing Period : 07-Jul-2011 to 13-Jul-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 Alkaline Digestion / 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)	Result (2)	MDL	RoHS Limit
Lead (Pb)	(1)	n.d.	n.d.	2	1000
Cadmium (Cd)	(2)	n.d.	n.d.	2	100
Mercury (Hg)	(3)	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI) by Alkaline Digestion/Colorimetric Method	(4)	n.d.	n.d.	2	1000
sum of PBBs	(5)	n.d.	n.d.	-	1000
Monobromobiphenyl		n.d.	n.d.	5	-
Dibromobiphenyl		n.d.	n.d.	5	-
Tribromobiphenyl		n.d.	n.d.	5	-
Tetrabromobiphenyl		n.d.	n.d.	5	-
Pentabromobiphenyl		n.d.	n.d.	5	-
Hexabromobiphenyl		n.d.	n.d.	5	-
Heptabromobiphenyl		n.d.	n.d.	5	-
Octabromobiphenyl		n.d.	n.d.	5	-
Nonabromobiphenyl		n.d.	n.d.	5	-
Decabromobiphenyl		n.d.	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)	Result (2)	MDL	RoHS Limit
Sum of PBDEs	(5)	n.d.	n.d.	-	1000
Monobromodiphenyl ether		n.d.	n.d.	5	-
Dibromodiphenyl ether		n.d.	n.d.	5	-
Tribromodiphenyl ether		n.d.	n.d.	5	-
Tetrabromodiphenyl ether		n.d.	n.d.	5	-
Pentabromodiphenyl ether		n.d.	n.d.	5	-
Hexabromodiphenyl ether		n.d.	n.d.	5	-
Heptabromodiphenyl ether		n.d.	n.d.	5	-
Octabromodiphenyl ether		n.d.	n.d.	5	-
Nonabromodiphenyl ether		n.d.	n.d.	5	-
Decabromodiphenyl ether		n.d.	n.d.	5	-

**Test Part Description**

Result (1) Yellow plastic/adhesive

Result (2) Light yellow (Hi-Flow (R) 650P1.0)

**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

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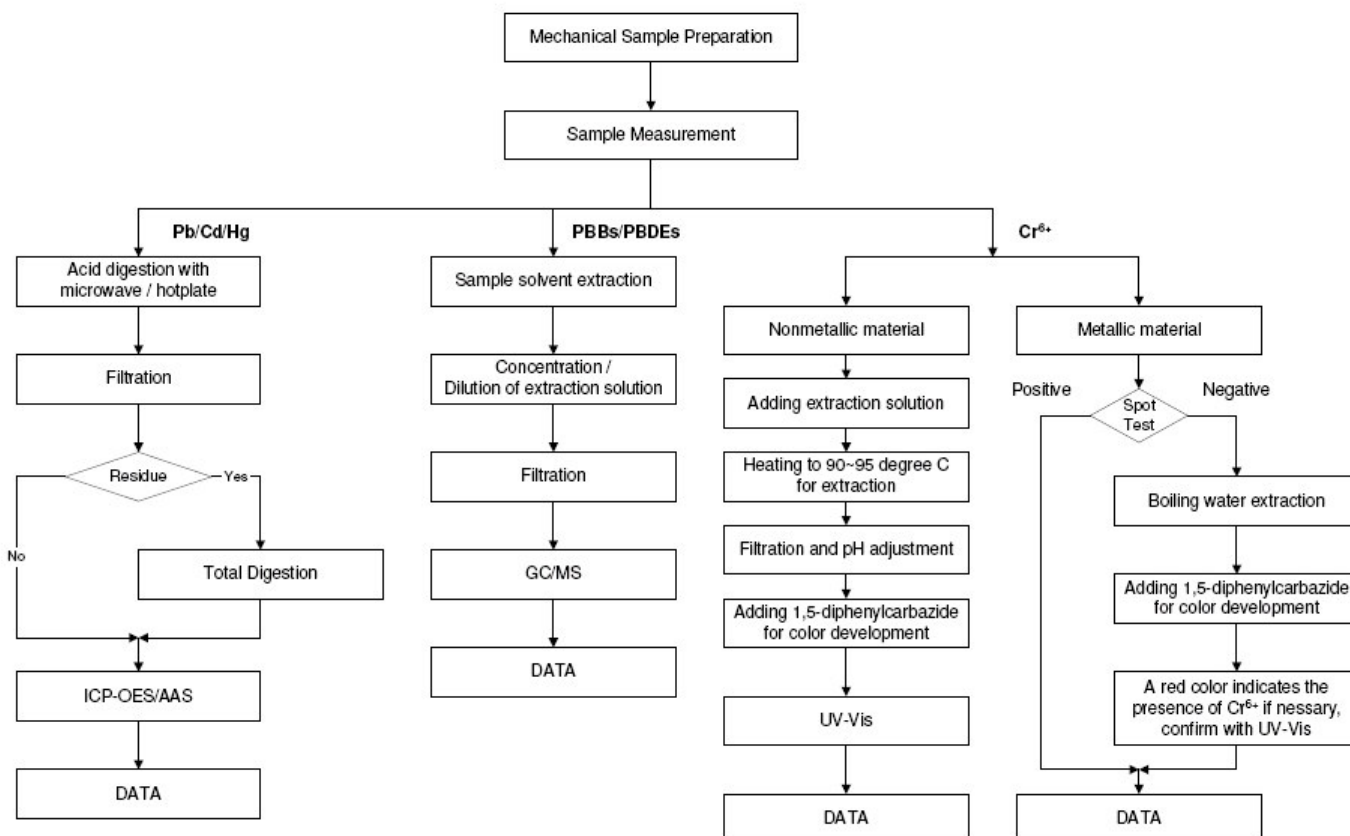
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Flow Chart for RoHS : Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs Testing

1. Operator : Siam Polarwut
2. Section Chief : Laddawan Uranpitr
3. The sample was dissolved totally by pre-conditioning method according to below flowchart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded)



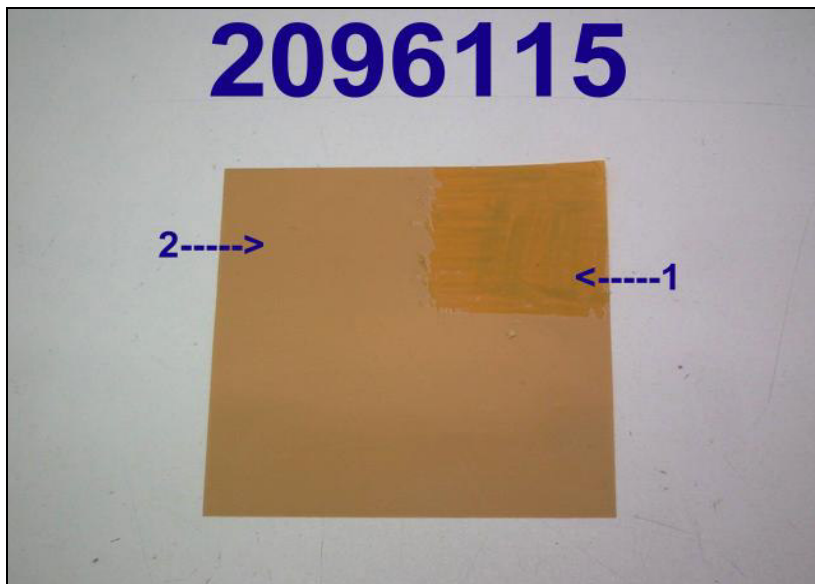
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SAMPLE/ATTACHMENT PICTURE



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

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