

**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) 225UF  
Sample No. : 1871401  
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 : 22-May-2010  
Testing Period : 22-May-2010 to 31-May-2010

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 Hexavalent Chromium by Colorless and Colored Chromate Coating on Metals/ Colorimetric Method, Analysis was performed by UV-Vis spectrometry.  
(6) 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**

**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.	-	2	1000
Hexavalent Chromium (CrVI) by Spot test / boiling water extraction	(5)	-	Negative	-	#
sum of PBBs	(6)	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	(6)	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) black ( Hi-Flow (R) 225 UF )

Result (2) metal

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) 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 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 cm<sup>2</sup> sample area.

(g) # = Positive indicates the presence of Hexavalent Chromium on the areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

(h) "-" = Not regulated

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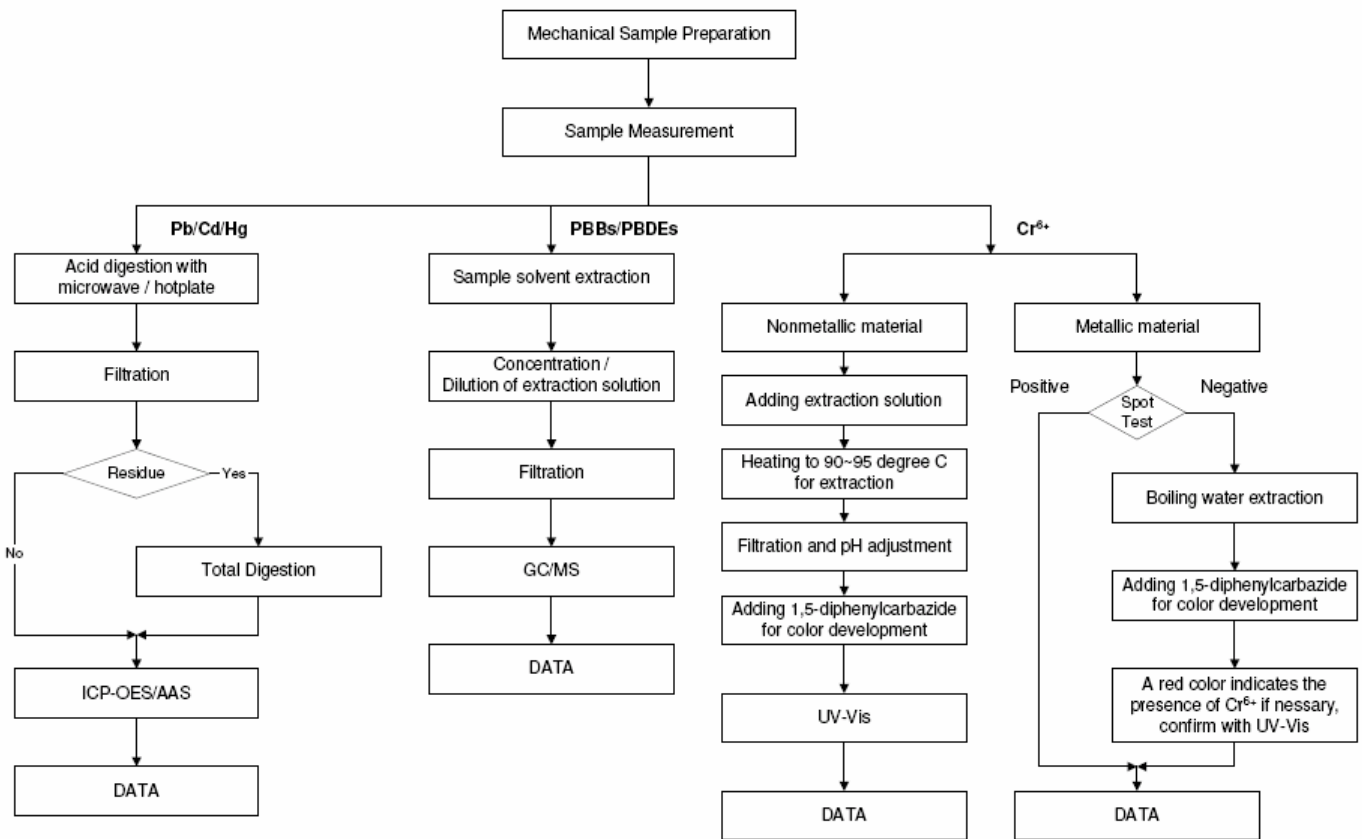
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Flow Chart for RoHS : Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs Testing

- 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)



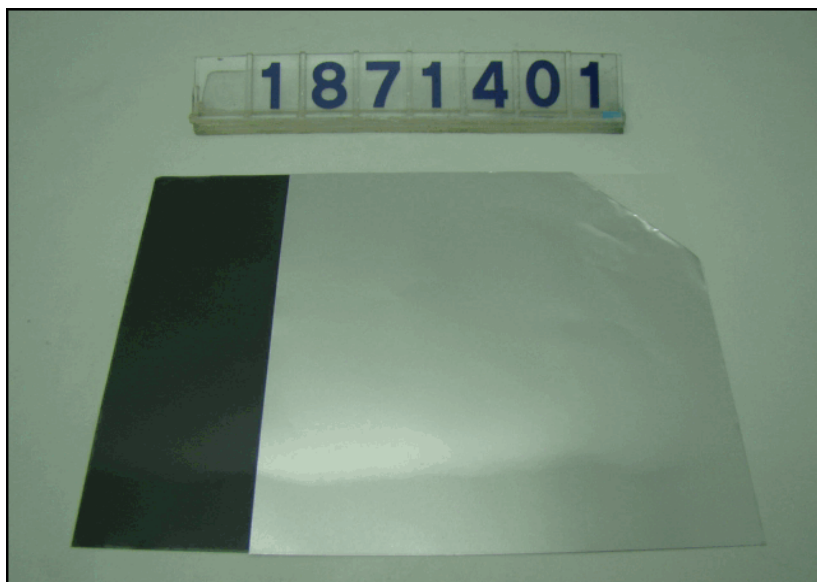
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SAMPLE/ATTACHMENT PICTURE



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

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