

Test Report	1697352
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Date : 8-Sep-2009

Page 1 of 5

### Client : Perfect Part Provider Co., Ltd. 32 J.B. Building 11 th Floor, Vibhavadee-Rangsit Road, Chomphon, Chatuchak, Bangkok 10900 Thailand

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

Sample Description Sample No. Sample Condition Manufacturer/Vendor Country of Origin Country of Destination	::	USA
Sample Receiving Date Testing Period		4-Sep-2009 04-Sep-2009 to 08-Sep-2009
Test Requested	:	In accordance with the RoHS Directive 2002/95/EC and its amendment directives
Test Method	:	<ol> <li>With reference to IEC 62321:2008 for Lead content, Analysis was performed by ICP-OES.</li> <li>With reference to IEC 62321:2008 for Cadmium content, Analysis was performed by ICP-OES.</li> <li>With reference to IEC 62321:2008 for Mercury content, Analysis was performed by ICP-OES.</li> <li>With reference to IEC 62321:2008 for Hexavalent Chromium by Alkaline Digestion / Colorimetric Method, Analysis was performed by UV-Vis Spectrometry.</li> <li>With reference to IEC 62321:2008 for PBB/PBDE content, Analysis was performed by GC/MS.</li> </ol>
Test Results	:	Please refer to next page.

#### CONCLUSION

1399065

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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Page 2 of 5

## **TEST RESULTS**

1399065

Test results by chemical method (U	Unit: mg/kg)
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Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Lead (Pb)	(1)	n.d.	2	1000
Cadmium (Cd)	(2)	n.d.	2	100
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium (CrVI) by Alkaline Digestion/Colorimetric Method	(4)	n.d.	2	1000
sum of PBBs	(5)	n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-

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Page 3 of 5

## **TEST RESULTS**

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Sum of PBDEs	(5)	n.d.	-	1000
Monobromodiphenyl ether		n.d.	5	-
Dibromodiphenyl ether		n.d.	5	-
Tribromodiphenyl ether		n.d.	5	-
Tetrabromodiphenyl ether		n.d.	5	-
Pentabromodiphenyl ether		n.d.	5	-
Hexabromodiphenyl ether		n.d.	5	-
Heptabromodiphenyl ether		n.d.	5	-
Octabromodiphenyl ether		n.d.	5	-
Nonabromodiphenyl ether		n.d.	5	-
Decabromodiphenyl ether		n.d.	5	-

**Test Part Description** 

Result (1) clear liquid

Note :

1399065

(a) mg/kg = ppm; 0.1 wt% = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) 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

(e) "-" = Not regulated

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Date : 8-Sep-2009

Page 4 of 5

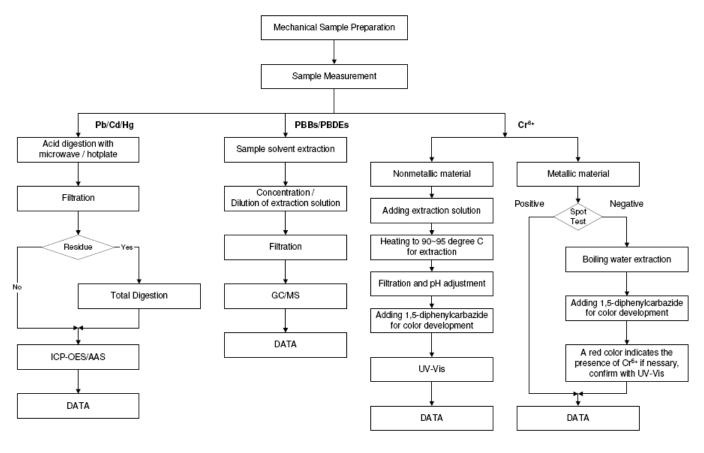
Flow Chart for RoHS : Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing

1. Operator : Wanwisa Seakew

1399065

2. Section Chief : Laddawan Uranpitr

3. The sample was dissolved totally by pre-conditioning method according to below flowchart. (Cr6+ and PBBs.PBDEs test method excluded)



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Page 5 of 5

#### SAMPLE/ATTACHMENT PICTURE



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