

1750615

Date: 30-Dec-2009

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Client: Wonderful Plastic Limited Partnership

259 Moo 12, T.Klongdan,

A.Bangbor Samutprakarn 10550 Thailand

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

Sample Description

Poly LDPE-Bag

Sample No.

1795418

Sample Condition

As per attached photograph

Sample Receiving Date: 24-Dec-2009

**Testing Period** 

24-Dec-2009 to 30-Dec-2009

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)	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	4
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl	1	n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	=
Decabromobiphenyl	4	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)	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	( <b>-</b> )
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 plastic bag

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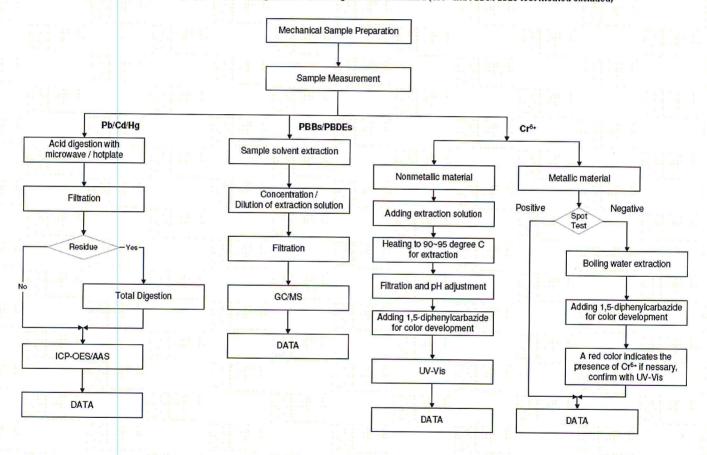
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Flow Chart for RoHS: Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing

- 1. Operator : Wanwisa Seakew
- 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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### SAMPLE/ATTACHMENT PICTURE



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

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