

Test Report

No.10137033/08 (11)

Date : September 16, 2008

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SUMITOMO BAKELITE SINGAPORE PTE. LTD.
1 SENOKO SOUTH ROAD
SINGAPORE 758069

The following merchandise was (were) submitted and identified by the client as:

Grade : EME-G605 Type
Lot No. : 8082625
Date Manufacturing : 16th Aug. 2008
Contact Name : Ms Gemi Tan
Contact Tel : +65-67503782
Contact Email : gemitan@sbs.sumibe.co.jp

Sample Receiving Date : 10th Sept. 2008
Testing Period : 10th Sept. 2008 to 16th Sept. 2008

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321/2nd (111/95/CDV) for Cadmium Content.
Analysis was performed by ICP
(2) With reference to IEC 62321/2nd (111/95/CDV) for Lead Content.
Analysis was performed by ICP
(3) With reference to IEC 62321/2nd (111/95/CDV) for Mercury Content.
Analysis was performed by ICP
(4) With reference to IEC 62321/2nd (111/95/CDV) Annex C for Hexavalent Chromium.
Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321/2nd (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd



Y.C. Tham
Laboratory Manager

Test Location: 26 Ayer Rajah Crescent, #07-07, Singapore 139944

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Test Part Description :

Grade : EME-G605 Type
 Lot No. : 8082625
 Date Manufacturing : 16th Aug. 2008

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

Test Item(s):*	Method (refer to)	Result	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI)	(4)	N.D.	2
Sum of Polybrominated Biphenyl (PBBs)	(5)	N.D.	-
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
Sum of Polybrominated Diphenylethers (PBDEs)		N.D.	-
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

Note : (a) mg/kg = ppm
 (b) N.D. = Not Detected
 (c) MDL = Method Detection Limit
 (d) Testing based on original basis
 * **Tested by SGS lab (LPCI/18220/08)**

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Sample Photo :



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1. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321/2nd (111/95/CDV)

Sample Preparation
↓
Add colour-developing reagent
↓
Acidify with H₂SO₄
↓
Let stand for 5-10 min
↓
Analyses by UV- Spectrophotometer (540 nm)

2. DETERMINATION OF LEAD CONTENT BY IEC 62321/2nd (111/95/CDV)

Sample Receiving and Registration
↓
Sample Preparation
↓
Weight sample (1.0g) into digestion vessel
↓
Wet digestion / Microwave digestion
↓
"Totally Dissolved"
↓
Filtration
↓
Analyses by ICP

3. DETERMINATION OF MERCURY CONTENT BY IEC 62321/2nd (111/95/CDV)

Sample Receiving and Registration
↓
Sample Preparation
↓
Weight sample (0.5 - 1.0g) into digestion vessel
↓
Acid digestion (Microwave)
↓
"Totally Dissolved"
↓
Filtration
↓
Analyses by ICP

4. DETERMINATION OF CADMIUM CONTENT BY IEC 62321/2nd (111/95/CDV)

Sample Receiving and Registration
↓
Sample Preparation
↓
Weight sample (1.0g)
↓
Acid digestion
↓
"Totally Dissolved"
↓
Filtration
↓
Analyses by ICP

5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321/2nd (111/95/CDV)

Sample Preparation
↓
Weight sample (2g) into extraction thimble
↓
Soxhlet Extraction with Toluene
↓
Filter through 0.45 um membrane filter
↓
Analyses by GC-MS (with appropriate dilution)

**** End of Report ****

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