

NM LABORATORY SDN. BHD. (563645-P)

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LABORATORY TESTINGS AND ANALYSIS CONSULTANCY



TEST REPORT

To: YUREKA SDN.BHD.

No.16, Jalan Jalak 2,

Taman Sri Bahtera,

Batu 5, Jalan Cheras, 56100 Kuala Lumpur.

Attn: Mr. Raymond Loo

Page No.

: 1 of 3

Certificate No.

: SP / 08-05 / 0552

Date of Issue

: 23 / 05 / 2008

Customer Sample Description

SILICONE RUBBER EXTRUSION / SHEET

BRAND: ALPHASIL

Date Of Sample Received

Date Of Testing

20 / 05 / 2008

20 / 05 / 2008 - 23 / 05 / 2008

Objective of Test

Determination of Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs and PBDEs in accordance with EU Directive 2002/95/EC (RoHS).



For NM LABORATORY SDN. BHD.

- amoun

JOB NO.: SP805/0753

Test performed by: Ms. Ashley Hoo

Ms Tan Hooi Cheng

Certified By:-

Yeap Cheo Mooi, M. Sc, AMIC Operation Manager



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: 2 of 3

LABORATORY TESTINGS AND ANALYSIS CONSULTANCY

Certificate No.: SP / 08-05 / 0552 Date of Issue : 23 / 05 / 2008

Customer : YUREKA SDN.BHD.

Page No.

Analysis parameter and Standard Method / Equipment / Technique description

Standard Method / Equipment / Technique Description Parameter

1. Cadmium BS EN 13346C: 2000

Characterization of sludges. Determination of trace elements and phosphorus.

Aqua regia extraction method.

ICP-AES (Inductive Coupled Plasma-Atomic Emission Spectrometry)

BS EN 13346C: 2000 2. Lead

Characterization of sludges. Determination of trace elements and phosphorus.

Aqua regia extraction method.

ICP-AES (Inductive Coupled Plasma-Atomic Emission Spectrometry)

BS EN 13346C: 2000 3. Mercury

Characterization of sludges. Determination of trace elements and phosphorus.

Aqua regia extraction method.

ICP-AES (Inductive Coupled Plasma-Atomic Emission Spectrometry)

USEPA Method 3060A-Alkaline digestion for Hexavalent Chromium 4 Chromium

USEPA Method 7196A - Colorimetric by UV/Vis Spectroscopy Hexavalent

USEPA Method 3540C- Soxhlet Extraction 5. PBBs

GC/MS-Gas Chromatography-Mass Spectrometry

6. PBDEs USEPA Method 3540C- Soxhlet Extraction

GC/MS-Gas chromatography-Mass Spectrometry

Measurement flowchart (Issue upon request)

Refer to Appendix E-Measurement for Cadmium, Lead and Mercury

Appendix B - Measurement for Chromium Hexavalent

Appendix C - Measurement for PBB & PBDE





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: 3 of 3

Page No.

LABORATORY TESTINGS AND ANALYSIS CONSULTANCY

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Analysis Result

Type of Analysis/Parameters/ Properties measured	Analysis Results	Unit	Preconditioning Method / Technique	Measurement Method / Equipment	MDL; mg/kg	RoHS Limit; mg/kg
Cadmium (as Cd)	ND	mg/kg	BS EN 13346C : 2000	ICP-AES	0.5	100
Lead (as Pb)	4	mg/kg	BS EN 13346C : 2000	ICP-AES	1	1000
Mercury (as Hg)	ND	mg/kg	BS EN 13346C : 2000	ICP-AES	5	1000
Chromium Hexavalent (as Cr ⁶⁺)	ND	mg/kg	USEPA Method 3060A	USEPA Method 7196A	1.1	1000

NML I	Chemical compound	Analysis Results	Preconditioning Method	Measurement Method	MDL; mg/kg	RoHS Limit; mg/kg
Polybrominated Biphenyls (PBBs)	Monobromobiphenyl Dibromobiphenyl Tribromobiphenyl Tetrabromobiphenyl Pentabromobiphenyl Hexabromobiphenyl Heptabromobiphenyl Octabromobiphenyl Nonabromobiphenyl Decabromobiphenyl	Not Detected	USEPA Method 3540C	GC/MS	5	NME
Tota	l PBBs				NE BELLINA	1000

E MINL NAME N	Chemical compound	Analysis Results	Preconditioning Method	Measurement Method	MDL; mg/kg	RoHS Limit; mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	Monobromodiphenyl ether Dibromodiphenyl ether Tribromodiphenyl ether Tetrabromodiphenyl ether Pentabromodiphenyl ether Hexabromodiphenyl ether Heptabromodiphenyl ether Octabromodiphenyl ether Nonabromodiphenyl ether Decabromodiphenyl ether	Not Detected Not Detected	USEPA Method 3540C	GC/MS	5 IL N MIL 1 S L NA MIL 1 S L N	SIME NIME NIME AL NIME NIME NIME
HML N	Total PBDEs	L HAL HAL HALL	NML MML NEAL MEAL	NIME WAL THAT A	MILENAL MEN	1000

: The test portion was "Totally Dissolved" for Cadmium, Lead & Mercury test by using

pre-conditioning method as mentioned above.

Conclusion: The sample analysis results were not exceed the maximum concentration values for

Cd, Pb, Hg, Cr⁶⁺, PBB and PBDE as stipulated in amendment 2005/618/EC of

EU Directive 2002/95/EC (RoHS).