



CERTIFICATE OF ANALYSIS

To : TORAY PLASTICS (M) SDN.BHD.
2628, Mk.1, SPT, Lorong Perusahaan 4,
Prai Free Industrial Zone,
13600 Prai, Pulau Pinang.
Attn : Mr. Teh (Technology centre)

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Certificate No. : SP/06-11/ 0809
Date Received : 30 /11/ 2006
Date of Testing : 30 /11/ 2006 - 06 /12/ 2006
Date Issue : 06 /12/ 2006

Client's Sample Description : TOYOLAC NH82-X07

Analysis parameter and Standard Method / Equipment / Technique description

Parameter	Standard Method / Equipment / Technique Description
1. Cadmium	BS EN 1122 Method B: 2001 Plastic-Determination of Cadmium by wet decomposition method ICP-AES (Inductive Coupled Plasma-Atomic Emission Spectrometry)
2. Lead	USEPA Method 3052 Microwave assisted acid digestion of siliceous and organically based matrices USEPA Method 6010B-Inductive Coupled Plasma-Atomic Emission Spectrometry
3. Mercury	USEPA Method 3052 Microwave assisted acid digestion of siliceous and organically based matrices Cold Vapor technique-Flow Injection Mercury System (FIMS)
4 Chromium	USEPA Method 3060A-Alkaline digestion for Hexavalent Chromium
Hexavalent	USEPA Method 7196A – Colorimetric by UV/Vis Spectroscopy
5. PBBs	USEPA Method 3540C- Soxhlet Extraction GC/MS-Gas Chromatography-Mass Spectrometry
6. PBDEs	USEPA Method 3540C- Soxhlet Extraction GC/MS-Gas chromatography-Mass Spectrometry

JOB NO.: SP611/0767

Test perform by : Ms. Tan Hooi Cheng
Mr. Chong Kian Wei



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Type of Analysis/Parameters/ Properties measured	Analysis Results	Preconditioning Method / Technique	Measurement Method / Equipment	Method Detection Limit
Cadmium (as Cd) ; mg/kg	Not Detected	BS EN 1122 B: 2001	ICP-AES	0.5
Lead (as Pb) ; mg/kg	Not Detected	USEPA Method 3052	USEPA Method 6010B	1
Mercury (as Hg) ; mg/kg	Not Detected	USEPA Method 3052	Cold vapor -FIMS	1
Chromium Hexavalent (as Cr ⁶⁺) ; mg/kg	Not Detected	USEPA Method 3060A	USEPA Method 7196A	1

Chemical compound	Analysis Results	Preconditioning Method	Measurement Method	Method Detection Limit
Polybrominated Biphenyls (PBBS) Monobromobiphenyl Dibromobiphenyl Tribromobiphenyl Tetrabromobiphenyl Pentabromobiphenyl Hexabromobiphenyl Heptabromobiphenyl Octabromobiphenyl Nonabromobiphenyl Decabromobiphenyl	Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected	USEPA Method 3540C	GC/MS	5

Chemical compound	Analysis Results	Preconditioning Method	Measurement Method	Method Detection Limit
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 Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected Not Detected	USEPA Method 3540C	GC/MS	5

Certified By:**Yeap Cheo Mooi, B. Sc (Hons), AMI
Chemist**