



NM LABORATORY SDN. BHD. (563645-P)

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LABORATORY TESTINGS AND ANALYSIS CONSULTANCY



ISO/IEC 17025

TESTING

SAMM NO. 188

CERTIFICATE OF ANALYSIS

To : **DAUBERT CROMWELL**
12701 S.Ridgeway Ave
Alsip, IL 60803
USA.
Attn : Chet Bidessi

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Certificate No. : SP /05-06/ 0394

Date of Issue : 14 / 06 / 2005

Client's Sample Description : **FERRO FILM (GREEN)**

Date Of Sample Received : 13 / 06 / 2005

Date Completed Analysis : 14 / 06 / 2005

Analysis parameter and Standard Method / Equipment / Technique description

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

JOB NO.: SP06/0404



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Type of Analysis/Parameters/ Properties measured	Analysis Results	Preconditioning Method / Technique	Measurement Method / Equipment
Cadmium (as Cd) ; mg/kg	ND(<0.5)	BS EN 1122 B: 2001	ICP-AES
Lead (as Pb) ; mg/kg	ND(<1)	USEPA Method 3052	USEPA Method 6010B
Mercury (as Hg) ; mg/kg	ND(<1)	USEPA Method 3052	Cold vapor -FIMS
Chromium Hexavalent (as Cr ⁶⁺) ; mg/kg	ND(<1)	USEPA Method 3060A	USEPA Method 7196A

Remark : Test portion was "Totally Dissolved" for Cadmium, Lead & Mercury test by using pre-conditioning method as mentioned above.

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Client's Sample Description : **FERRO FILM (GREEN)**

Date Of Sample Received : 13 / 06 / 2005

Date Completed Analysis : 14 / 06 / 2005

Parameter Tested (as stated below) :
Polybrominated Biphenyls (PBBs)

Chemical compound	Analysis Results	Preconditioning Method	Measurement Method
Tribromobiphenyl	Not Detected	USEPA Method 3540C	GC/MS
Tetrabromobiphenyl	Not Detected		
Pentabromobiphenyl	Not Detected		
Hexabromobiphenyl	Not Detected		
Heptabromobiphenyl	Not Detected		
Octabromobiphenyl	Not Detected		
Decabromobiphenyl	Not Detected		

Calibration Standard: AccuStandard for PBB traceable to NIST.

Method Detection limit is 5 ppm.

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Date of Issue : 14 / 06 / 2005

Client's Sample Description : **FERRO FILM (GREEN)**

Date Of Sample Received : 13 / 06 / 2005

Date Completed Analysis : 14 / 06 / 2005

Parameter Tested :
Polybrominated Diphenyl Ethers (PBDEs)

Chemical compound	Results	Preconditioning Method	Measurement Method
Tribromodiphenyl ether	Not Detected	USEPA Method 3540C	GC/MS
Tetrabromodiphenyl ether	Not Detected		
Pentabromodiphenyl ether	Not Detected		
Hexabromodiphenyl ether	Not Detected		
Heptabromodiphenyl ether	Not Detected		
Octabromodiphenyl ether	Not Detected		
Decabromodiphenyl ether	Not Detected		

Calibration Standard: AccuStandard for PBDE traceable to NIST.

Method Detection Limit is 5 ppm.

For NM LABORATORY SDN. BHD.

JOB NO.: SP06/0404

Certified By:

Test perform by : Ms. Tan Hooi Cheng

Yeap Cheo Mooi, B. Sc (Hons), AMIC
Chemist