



NM LABORATORY SDN. BHD. (563645-P)

80, LORONG PERDA SELATAN 1, BANDAR PERDA,
14000 BUKIT MERTAJAM, PULAU PINANG, MALAYSIA.

TEL: XXXXXX (HUNTING LINE) FAX: XXXXXX

Website: www.nmlab.com.my E-mail: enquiry@nmlab.com.my
LABORATORY TESTINGS AND ANALYSIS CONSULTANCY



ISO/IEC 17025
TESTING
SAMM NO. 188

CERTIFICATE OF ANALYSIS

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Certificate No.: SP /05-06/ 0392

Date of Issue : 14 / 06 / 2005

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

Client's Sample Description : SILVER GUARD FILM

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.: SP06/0402



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Client's Sample Description : SILVER GUARD FILM

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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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Certificate No.: SP /05-06/ 0392

Date of Issue : 14 / 06 / 2005

Client's Sample Description : **SILVER GUARD FILM**

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	GCMS
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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Client's Sample Description : **SILVER GUARD FILM**

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.: SP06/0402

Certified By:

Test perform by : **Ms. Tan Hooi Cheng**

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