

## Test Report

No. LPCI/21536/07  
CTS Ref. CTS/07/5257/ITW

Date : 2007/12/14

Page: 1 of 4

ITW MERITEX SDN. BHD.  
BAYAN LEPAS, PHASE 4, TECHNOPLEX, 11900 PENANG.

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

Sample Description : REEL 4  
Sample Receiving Date : 2007/11/05  
Testing Period : 2007/11/05 to 2007/11/12  
Date Reported : 2007/12/14

---

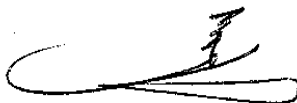
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to BS EN 1122:2001, Method B for Cadmium Content.  
Analysis was performed by ICP  
(2) With reference to EPA Method 3050B for Lead Content.  
Analysis was performed by ICP  
(3) With reference to EPA Method 3051A for Mercury Content.  
Analysis was performed by ICP  
(4) With reference to EPA Method 3060A & 7196A for Hexavalent Chromium.  
Analysis was performed by UV/Vis Spectrophotometry.  
(5) With reference to EPA Method 3540C/3550B for PBB / PBDE Content.  
Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

SGS LABORATORY SERVICES (M) SDN. BHD.



CHONG KIEN LEN  
B.Sc.(HONS) AMIC  
LAB MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf or available on request and accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issue defined therein. Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.

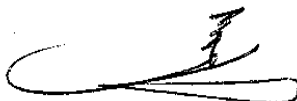
Test results by chemical method (Unit: mg/kg)

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) by alkaline extraction	(4)	N.D.	2
<b>Sum of Polybrominated Biphenyl (PBBs)</b>	(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
<b>Sum of Polybrominated Diphenylethers (PBDEs)</b>		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

Test Part Description :

As per page 3

SGS LABORATORY SERVICES (M) SDN. BHD.



CHONG KIEN LEN  
B.Sc.(HONS) AMIC  
LAB MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf or available on request and accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issue defined therein. Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.

## Test Report

No. LPCI/21536/07  
CTS Ref. CTS/07/5257/ITW

Date : 2007/12/14

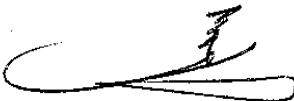
Page: 3 of 4

Test Part Description :

Sample Description : REEL 4

Note : (a) mg/kg = ppm  
(b) N.D. = Not Detected  
(c) MDL = Method Detection Limit

SGS LABORATORY SERVICES (M) SDN. BHD.



CHONG KIEN LEN  
B.Sc.(HONS) AMIC  
LAB MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf or available on request and accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issue defined therein. Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.

### 1. DETERMINATION OF HEXAVALENT CHROMIUM BY METHOD US EPA 3060A/7196A

Sample Preparation  
↓  
Add colour-developing reagent  
↓  
Acidify with H<sub>2</sub>SO<sub>4</sub>  
↓  
Let stand for 5-10 min  
↓  
Analyses by UV- Spectrophotometer (540 nm)

### 2. DETERMINATION OF LEAD CONTENT BY US EPA 3050B

Cut sample in small pieces  
↓  
Weight sample (1.0g) into digestion vessel  
↓  
Acid digestion (HCl and HNO<sub>3</sub>)  
↓  
"Totally Dissolved"  
↓  
Analyses by ICP

### 3. MICROWAVE ASSISTED ACID DIGESTION OF ORGANICALLY BASED METRICES (US EPA 3051A)

Cut sample in small pieces  
↓  
Weight sample (0.2-0.5g) into digestion vessel  
↓  
Acid digestion (HNO<sub>3</sub>) – Microwave  
↓  
"Totally Dissolved"  
↓  
Analyses by ICP

### 4. PLASTIC – DETERMINATION OF CADMIUM – WET DECOMPOSITION METHOD (EN 1122) – METHOD B

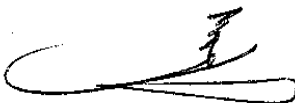
Cut sample in small pieces  
↓  
Weight sample (1.0g) into Kjeldahl flask  
↓  
Acid digestion (H<sub>2</sub>SO<sub>4</sub>)  
↓  
"Totally Dissolved"  
↓  
Analyses by ICP

### 5. DETERMINATION OF PBB/PBDE WITH GC-MS

Cut sample in small pieces  
↓  
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 \*\*\*\*

SGS LABORATORY SERVICES (M) SDN. BHD.



CHONG KIEN LEN  
B.Sc.(HONS) AMIC  
LAB MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf or available on request and accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issue defined therein. Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.