



## Test Report

No. LPCI/08746/10

Date : 07/05/2012

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CTS Ref. CTS/10/1740/Fitspecs

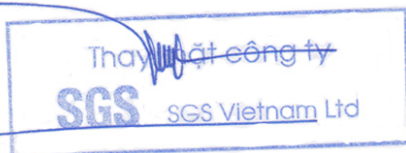
INDUSTRY AND SERVICE VIENAM CO., LTD.  
NO. 26, QUANG MINH INDUSTRY, ME LINH, HA NOI, VIET NAM

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

Sample Description : Carton Box  
Sample Received : 03/05/2012  
Testing Date : 03/05/2012 to 07/05/2012

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

SGS VIETNAM LTD



Nguyen Thi Anh Thu  
Division Manager

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Test results:

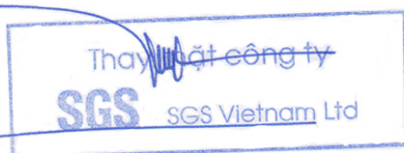
### Test Part Description :

Sample Description : Carton Box

### RoHS Directive 2002/95/EC

Test Item(s):	Unit	Test Method	Results	MDL
Cadmium(Cd)	mg/kg	With reference to EPA Method 3052, and performed by ICP-OES	N.D.	2
Lead (Pb)	mg/kg	With reference to EPA Method 3052, and performed by ICP-OES	N.D.	2
Mercury (Hg)	mg/kg	With reference to EPA Method 3052, and performed by ICP-OES	N.D.	2
Hexavalent Chromium (CrVI)	mg/kg	With reference to EPA Method 3060A & 7196A, and performed by UV-VIS Spectrophotometry	N.D.	2
Sum of PBBs	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	-
Monobromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Dibromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Tribromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Tetrabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Hexabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Pentabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Heptabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Octabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Nonabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Decabromobiphenyl	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5

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Test Item(s):	Unit	Test Method	Results	MDL
Sum of PBDEs	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	-
Monobromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Dibromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Tribromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Tetrabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Pentabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Hexabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Heptabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Octabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Nonabromodiphenyl ether	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5
Decabromodiphenyl ether ##	mg/kg	With reference to EPA Method 3540C/3550C, and performed by GC-MS	N.D.	5

Note : (a) mg/kg = ppm ; (0.1wt% = 1000ppm)

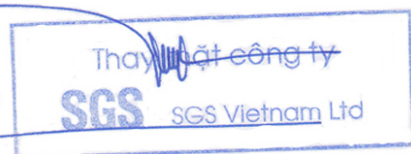
(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) ## = The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE is included in the sum of PBDE after 01.07.2008

(e) - = Not regulated

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Division Manager

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Test results by chemical method:

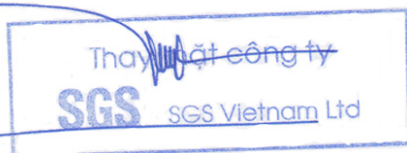
Test Item (s):	Unit	Method	MDL	Result
PFOS - Acid, Metal Salt, Amide	mg/kg	With reference to EPA Method EPA3052, and performed by ICP-OES	10	N.D.
Arsenic (As)	ppm	With reference to EPA Method EPA3052, and performed by ICP-OES	2	N.D.

### Test Part Description :

Sample Description : Carton Box

Note : (a) mg/kg = ppm ; (0.1wt% = 1000ppm)  
(b) N.D. = Not Detected  
(c) MDL = Method Detection Limit  
(d) --- = Not Conducted

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Division Manager

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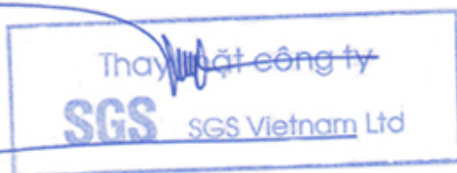
### Test Part Description :

Sample Description : Carton Box

**FITSPECS (M) SDN BHD**  
**LPCI/08746/10**



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

Sample Preparation  
↓  
Add colour-developing reagent  
↓  
Acidify with  $H_2SO_4$   
↓  
Let stand for 5-10 min  
↓  
Analyses by UV- Spectrophotometer (540 nm)  
PFOS - Acid, Metal Salt, Amide

## 2. MICROWAVE ASSISTED ACID DIGESTION OF SILICEOUS AND ORGANICALLY BASED METRICES (US EPA 3052)

Cut sample in small pieces  
↓  
Weight sample (0.2-0.5g) into digestion vessel  
↓  
Acid digestion ( $HF$  and  $HNO_3$ ) – Microwave  
↓  
"Totally Dissolved"  
↓  
Filtration  
↓  
Analyses by ICP

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

Cut sample in small pieces  
↓  
Weight sample (0.5-2g) into extraction thimble  
↓  
Ultrasonic / Soxhlet Extraction with Toluene  
↓  
Filter through 0.45  $\mu m$  membrane filter  
↓  
Analyses by GC-MS (with appropriate dilution)

\*\*\*\* End of Report \*\*\*\*

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