Test Report

No: 10252356(1) Date: 11-Nov-11 Page 1 of 5

Nelco Products Pte Ltd
4 Gul Crescent S(629520)

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : D1050 LAMINATE (N4800-20)

Sample Receiving Date : 03-Nov-11
Testing Period : 03-Nov-11 to 11-Nov-11
Test Requested : In accordance with the RoHS Directive 2011/65/EU Annex II.

Test Result(s) : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results comply with the RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd

Y.C. Tham
Laboratory Manager

Test Location: 26 Ayer Rajah Crescent, #07-08, Singapore 139944
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## Test Result(s):

### Sample Description

D1050 LAMINATE

<table>
<thead>
<tr>
<th>Test Item(s):</th>
<th>Unit</th>
<th>Method</th>
<th>Results</th>
<th>MDL</th>
<th>RoHS Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium(Cd)</td>
<td>mg/kg</td>
<td>With reference to IEC62321, Ed1:2008. Analysis was performed by ICP/AES</td>
<td>n.d.</td>
<td>2</td>
<td>100</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>mg/kg</td>
<td>With reference to IEC62321, Ed1:2008. Analysis was performed by ICP/AES</td>
<td>n.d.</td>
<td>2</td>
<td>1000</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>mg/kg</td>
<td>With reference to IEC62321, Ed1:2008. Analysis was performed by ICP/AES</td>
<td>n.d.</td>
<td>2</td>
<td>1000</td>
</tr>
<tr>
<td>Hexavalent Chromium (CrVI)</td>
<td>mg/kg</td>
<td>With reference to IEC62321, Ed1:2008. Analysis was performed by UV/Vis Spectrometry</td>
<td>n.d.</td>
<td>2</td>
<td>1000</td>
</tr>
<tr>
<td><strong>Sum of PBBs</strong></td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>-</td>
<td>1000</td>
</tr>
<tr>
<td>Monobromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Dibromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tribromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tetrabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Hexabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Pentabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Heptabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Octabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Nonabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Decabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td><strong>Sum of PBDEs</strong></td>
<td>mg/kg</td>
<td>With reference to IEC62321, Ed1:2008. Analysis was performed by GC/MS</td>
<td>n.d.</td>
<td>-</td>
<td>1000</td>
</tr>
<tr>
<td>Monobromodi phenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Dibromodi phenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tribromodi phenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tetrabromodi phenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Pentabromodi phenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Hexabromodi phenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Heptabromodi phenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Octabromodi phenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Nonabromodi phenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Decabromodi phenyl ether ##</td>
<td>mg/kg</td>
<td></td>
<td>n.d.</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

Test Location: 26 Ayer Rajah Crescent, #07-08, Singapore 139944

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Note:  
(1) mg/kg = ppm ; 0.1wt% = 1000ppm  
(2) n.d. = Not Detected  
(3) MDL = Method Detection Limit  
(4) ## = 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 will be included in the sum of PBDE after 01.07.2008.  
(5) "-" = Not regulated  
(6) * : Exceeds limit  

Lab Analyst(s): Jay, Jojo and Eileen  
Remarks: Sample received was totally dissolved by preconditioning method. 

Sample photo:  
Sample Description : D1050 LAMINATE  

SGS authenticate the photo on original report only
**Process Flow of IEC 62321 (Pb, Cd, Hg & Cr⁶⁺)**

**Remarks:** Sample received was totally dissolved by preconditioning method. (CrVI method excluded.)
Process Flow of PBBs and PBDEs by GC/MS (IEC 62321)

First Testing Process → Optional screen process ...... Confirmation process ...

- Cutting/Preparation
- Sample Pre-treatment
- Screening Analysis
- Solvent Extraction
- Concentrate/Dilute extracted solution
- Filter
- High Mass Range GC/MS
- Data

***End of Report***