

## TEST REPORT



Your Ref:

Date: 03 May 2006

Our Ref: 57S062068

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DID: 6885 1313 / 6885 1331

Fax: 6778 4301

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### Subject

Analysis of Banned/Restricted Substances for Laminate Sample.

### Client

Nelco Products Pte Ltd  
4 Gul Crescent  
Jurong  
Singapore 629520

Attn : Mr Ng Chee Seng

### Sample Description

One piece of yellow laminate sample labelled as follows was received on 19 Apr 2006.

1. N-29 7628BS  
T15026-95A  
269g

### Date of Analysis

21 Apr 2006 – 03 May 2006.

### Method of Test

1. **Elemental Analysis for Cadmium (Cd), Lead (Pb) and Mercury (Hg)**  
The sample was digested by inorganic acid, followed by analysis using Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES).
2. **Hexavalent Chromium Analysis (Cr<sup>6+</sup>)**  
The sample was analysed by UV-Vis spectrometer using 1,5-Diphenylcarbohydrazide as derivatizing agent.
3. **Detection of Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs)**  
The sample was extracted with organic solvent and cleaned up with appropriate procedures, followed by analysis using Gas Chromatograph with Mass Selective Detector (GC-MSD).



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**Results**

Table 1. The analytical results for the sample "N-29 7628BS".

Test Item	Results
Cadmium (Cd)	Not Detected <sup>a</sup>
Lead (Pb)	Not Detected <sup>a</sup>
Mercury (Hg)	Not Detected <sup>a</sup>
Hexavalent Chromium (Cr <sup>6+</sup> )	Not Detected <sup>a</sup>
Polybrominated Biphenyls (PBBs)	Not Detected <sup>b</sup>
Polybrominated Diphenyl Ethers (PBDEs)	Not Detected <sup>b</sup>

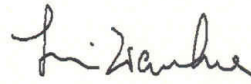
**Notes :**

<sup>a</sup> The method detection limit was 5 ppm.

<sup>b</sup> The method detection limit was 250 ppm.



TAN SER LING  
TECHNICAL EXECUTIVE



DR LIN JIAN HUA  
ASSISTANT VICE PRESIDENT  
MICROCONTAMINATION DIAGNOSIS  
TESTING GROUP

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May 2005