Test Report

No. 5006465-CH13

Date: February 9, 2023

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Samtec Inc.
520 Park East Blvd
New Albany, IN 47150
United States

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

Brass Leaded – Color = Yellow
Country of Destination: USA
Model/ Part No.: Brass Leaded

Sample Received Date: 01/19/2023
Testing Period: 01/24/2023 – 02/06/2023

Test Requested: Please refer to the result summary.
Test Method & Results: Please refer to next page(s).

Result Summary:

<table>
<thead>
<tr>
<th>Test(s) Requested</th>
<th>Conclusion</th>
</tr>
</thead>
</table>

Signed for and on behalf of SGS North America, Inc.

Prepared By:

Brian Murphy
Laboratory supervisor, Chemistry laboratory

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<table>
<thead>
<tr>
<th>Test Item(s):</th>
<th>Unit</th>
<th>Test Method</th>
<th>Results 1</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-5:2013 (Determination of Cd and Pb by ICP-OES and /or ICP-MS)</td>
<td>19.9</td>
<td>2</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-4:2013+A1:2017 (Determination of Hg by ICP-OES and /or ICP-MS)</td>
<td>21400</td>
<td>2</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-7:2:2017 (Determination of CrVI by UV-Vis)</td>
<td>ND*</td>
<td>8</td>
</tr>
<tr>
<td>Hexavalent Chromium (CrVI)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-7:2:2017 (Determination of CrVI by UV-Vis)</td>
<td>ND*</td>
<td>8</td>
</tr>
</tbody>
</table>

Sample Description:
1. Box 13 – Brass Leaded Yellow Brass

Note:
(a) mg/kg = ppm : 0.1wt% = 1000ppm
(b) ND= not detected
(c) MDL = Method Detection Limit
(d) - = not regulated
(e) * = Total Chromium analysis by ICP-MS and/or ICP-OES was not detected in submitted sample. Therefore, Hexavalent Chromium determination using UV-Visible Spectroscopy was not performed.
(f) IEC 62321 series is equivalent to EN 62321 series

Flowchart for RoHS:

- **Cutting / Preparation**
- **Weigh Sample**
- **Acid Digestion with appropriate acid**
  - **Filtration**
    - **Solution**
    - **Residue**
      - a. **Dry Ashing**
      - b. **Dissolution by HNO₃/HCl**
    - **ICP-MS**
  - **Alkaline Extraction**
    - **Filtration, pH, Clean-up**
    - **Add reagent for color development**
      - **UV-VIS**
- **Solvent Extraction**
  - **Concentrate / Dilute extracted solution**
    - **Clean-up with florisil column**
    - **Solution**
    - **GC-MS**

**Note:**
1. The Cr, Cd, Pb and Hg contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.
2. Cr⁶⁺ is performed only when total Cr is detected.
Sample Photo(s):

SGS authenticates the photo(s) on the original report only

*** End of Report ***