Test Report

INAOAC CORPORATION
3-1-36, IMAIKE-CHO, ANJO,
AICHI, JAPAN 446-8504.

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

Product Category : Polyolefin Foam
Type : PE-LITE
Item : RL-150FR
Colour : Black
Sample Receiving : 18/02/2016
Testing Date : 18/02/2016 to 14/03/2016

Test Result : Please see the next page

Analysts : Lee Hui Min & Ong Seng Wee

SGS (MALAYSIA) SDN. BHD.

LIM MENG HOE
B.Sc.(HONS) MMIC
ASSISTANT LAB MANAGER

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CRS REF. : CRSPG/16/0042/INOAC
DATE REPORTED : 14th Mar., 2016
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Company : INOAC CORPORATION
3-1-36, IMAIKE-CHO, ANJO,
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Test Result

Product Category : Polyolefin Foam
Type : PE-LITE
Item : RL-150FR
Colour : Black

<table>
<thead>
<tr>
<th>Test Item (s)</th>
<th>Unit</th>
<th>Method</th>
<th>MDL</th>
<th>Result</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium VI (Cr6+)</td>
<td>ppm</td>
<td>IEC 62321 : 2008 Annex C</td>
<td>2</td>
<td>N.D.</td>
<td>1000</td>
</tr>
<tr>
<td>Cadmium (Cd)</td>
<td>ppm</td>
<td>IEC 62321-5 : 2013</td>
<td>2</td>
<td>N.D.</td>
<td>100</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>ppm</td>
<td>IEC 62321-4 : 2013</td>
<td>2</td>
<td>N.D.</td>
<td>1000</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>ppm</td>
<td>IEC 62321-5 : 2013</td>
<td>2</td>
<td>N.D.</td>
<td>1000</td>
</tr>
</tbody>
</table>

NOTE: (a) N.D. = Not detected (<MDL)
(b) ppm = mg/kg
(c) MDL = Method Detection Limit

Analysts : Lee Hui Min & Ong Seng Wee

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### Test Result

**Product Category** : Polyolefin Foam  
**Type** : PE-LITE  
**Item** : RL-150FR  
**Colour** : Black

<table>
<thead>
<tr>
<th>Test Item (s)</th>
<th>Unit</th>
<th>Method</th>
<th>MDL</th>
<th>Result</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PBBs</strong> (Polybrominated Biphenyls)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monobromo Biphenyl</td>
<td>ppm</td>
<td>GCMS as per IEC 62321-6 : 2015</td>
<td>5</td>
<td>N.D.</td>
<td>1000</td>
</tr>
<tr>
<td>Dibromo Biphenyl</td>
<td>ppm</td>
<td>GCMS as per IEC 62321-6 : 2015</td>
<td>5</td>
<td>N.D.</td>
<td></td>
</tr>
<tr>
<td>Tribromo Biphenyl</td>
<td>ppm</td>
<td>GCMS as per IEC 62321-6 : 2015</td>
<td>5</td>
<td>N.D.</td>
<td></td>
</tr>
<tr>
<td>Tetrabromo Biphenyl</td>
<td>ppm</td>
<td>GCMS as per IEC 62321-6 : 2015</td>
<td>5</td>
<td>N.D.</td>
<td></td>
</tr>
<tr>
<td>Pentabromo Biphenyl</td>
<td>ppm</td>
<td>GCMS as per IEC 62321-6 : 2015</td>
<td>5</td>
<td>N.D.</td>
<td></td>
</tr>
<tr>
<td>Hexabromo Biphenyl</td>
<td>ppm</td>
<td>GCMS as per IEC 62321-6 : 2015</td>
<td>5</td>
<td>N.D.</td>
<td></td>
</tr>
<tr>
<td>Heptabromo Biphenyl</td>
<td>ppm</td>
<td>GCMS as per IEC 62321-6 : 2015</td>
<td>5</td>
<td>N.D.</td>
<td></td>
</tr>
<tr>
<td>Octabromo Biphenyl</td>
<td>ppm</td>
<td>GCMS as per IEC 62321-6 : 2015</td>
<td>5</td>
<td>N.D.</td>
<td></td>
</tr>
<tr>
<td>Nonabromo Biphenyl</td>
<td>ppm</td>
<td>GCMS as per IEC 62321-6 : 2015</td>
<td>5</td>
<td>N.D.</td>
<td></td>
</tr>
<tr>
<td>Decabromo Biphenyl</td>
<td>ppm</td>
<td>GCMS as per IEC 62321-6 : 2015</td>
<td>5</td>
<td>N.D.</td>
<td></td>
</tr>
</tbody>
</table>

| **PBDEs** (Polybrominated Diphenyl ethers) | | | | | |
| Monobromo Diphenyl Ether | ppm | GCMS as per IEC 62321-6 : 2015 | 5 | N.D. | |
| Dibromo Diphenyl Ether | ppm | GCMS as per IEC 62321-6 : 2015 | 5 | N.D. | |
| Tribromo Diphenyl Ether | ppm | GCMS as per IEC 62321-6 : 2015 | 5 | N.D. | |
| Tetrabromo Diphenyl Ether | ppm | GCMS as per IEC 62321-6 : 2015 | 5 | N.D. | |
| Pentabromo Diphenyl Ether | ppm | GCMS as per IEC 62321-6 : 2015 | 5 | N.D. | |
| Hexabromo Diphenyl Ether | ppm | GCMS as per IEC 62321-6 : 2015 | 5 | N.D. | |
| Heptabromo Diphenyl Ether | ppm | GCMS as per IEC 62321-6 : 2015 | 5 | N.D. | |
| Octabromo Diphenyl Ether | ppm | GCMS as per IEC 62321-6 : 2015 | 5 | N.D. | |
| Nonabromo Diphenyl Ether | ppm | GCMS as per IEC 62321-6 : 2015 | 5 | N.D. | |
| Decabromo Diphenyl Ether | ppm | GCMS as per IEC 62321-6 : 2015 | 5 | N.D. | |

**NOTE:**  
(a) N.D. = Not detected (<MDL)  
(b) ppm = mg/kg  
(c) MDL= Method Detection Limit  
Analysts : Lee Hui Min & Ong Seng Wee

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## 1. Determination of Cadmium Content by IEC 62321-5 2013

**Sample Receiving and Registration**
- Cut sample in small pieces
- Weight sample (0.2-0.5g) into digestion vessel
- Acid digestion (Microwave)
  - "Totally Dissolved"
  - Filtration
  - Analyses by ICP

## 2. Determination of Lead Content by IEC 62321-5 2013

**Sample Receiving and Registration**
- Cut sample in small pieces
- Weight sample (0.2-0.5g) into digestion vessel
- Acid digestion (Microwave)
  - "Totally Dissolved"
  - Filtration
  - Analyses by ICP

## 3. Determination of Mercury Content by IEC 62321-4 2013

**Sample Receiving and Registration**
- Cut sample in small pieces
- Weight sample (0.1-0.5g) into digestion vessel
- Acid digestion (Microwave)
  - "Totally Dissolved"
  - Filtration
  - Analyses by ICP

## 4. Determination of Hexavalent Chromium by IEC 62321 2008

**Sample Preparation**
- Add colour-developing reagent
- Acidify with $\text{H}_2\text{SO}_4$
- Let stand for 5-10 min
- Analyses by UV-Spectrophotometer (540 nm)

## 5. Determination of PBB/PBDE with GC-MS by IEC 62321-6 2015

- Cut sample in small pieces
- Weight sample (0.5-4.0g) into extraction thimble
- Soxhlet Extraction with Toluene
- Filter through 0.45 um membrane filter
- Analyses by GC-MS (with appropriate dilution)

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