The following sample(s) was/were submitted and identified on behalf of the clients as: Webcam Covers.

SGS Job No.: RP18-019656 - SZ
Model No.: Shield
Date of Sample Received: 19 Dec 2018
Testing Period: 19 Dec 2018 - 26 Dec 2018
Test Requested: Selected test(s) as requested by client.
Test Method: Please refer to next page(s).
Test Results: Please refer to next page(s).
Conclusion: Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.
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No. SZXEC1802017301  
Date: 08 Jan 2019  
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Test Results:

**Test Part Description:**

<table>
<thead>
<tr>
<th>Specimen No.</th>
<th>SGS Sample ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SN1</td>
<td>SZX18-020173.001</td>
<td>Yellow plastic (semi-product)</td>
</tr>
<tr>
<td>SN2</td>
<td>SZX18-020173.002</td>
<td>Transparent double-sided adhesive tape (semi-product)</td>
</tr>
</tbody>
</table>

Remarks:

1. 1 mg/kg = 1 ppm = 0.0001%
2. MDL = Method Detection Limit
3. ND = Not Detected (< MDL)
4. "-" = Not Regulated


<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>Limit</th>
<th>Unit</th>
<th>MDL</th>
<th>001</th>
<th>002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>100 mg/kg</td>
<td>2 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>1,000 mg/kg</td>
<td>2 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>1,000 mg/kg</td>
<td>2 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexavalent Chromium (Cr(VI))</td>
<td>1,000 mg/kg</td>
<td>8 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sum of PBDEs</td>
<td>1,000 mg/kg</td>
<td>- ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monobromobiphenyl</td>
<td>- mg/kg</td>
<td>5 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dibromobiphenyl</td>
<td>- mg/kg</td>
<td>5 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tribromobiphenyl</td>
<td>- mg/kg</td>
<td>5 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetrabromobiphenyl</td>
<td>- mg/kg</td>
<td>5 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pentabromobiphenyl</td>
<td>- mg/kg</td>
<td>5 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexabromobiphenyl</td>
<td>- mg/kg</td>
<td>5 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heptabromobiphenyl</td>
<td>- mg/kg</td>
<td>5 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Octabromobiphenyl</td>
<td>- mg/kg</td>
<td>5 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonabromobiphenyl</td>
<td>- mg/kg</td>
<td>5 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decabromobiphenyl</td>
<td>- mg/kg</td>
<td>5 ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sum of PBDEs</td>
<td>1,000 mg/kg</td>
<td>- ND ND</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Member of the SGS Group (SGS SA)
### Test Report

**Test Item(s)** | **Limit** | **Unit** | **MDL** | **001** | **002**
--- | --- | --- | --- | --- | ---
Pentabromodiphenyl ether | - | mg/kg | 5 | ND | ND
Hexabromodiphenyl ether | - | mg/kg | 5 | ND | ND
Heptabromodiphenyl ether | - | mg/kg | 5 | ND | ND
Octabromodiphenyl ether | - | mg/kg | 5 | ND | ND
Nonabromodiphenyl ether | - | mg/kg | 5 | ND | ND
Decabromodiphenyl ether | - | mg/kg | 5 | ND | ND
Dibutyl Phthalate (DBP) | 1000 | mg/kg | 50 | ND | ND
Butyl benzyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND | ND
Bis(2-ethylhexyl) Phthalate (DEHP) | 1000 | mg/kg | 50 | ND | ND
Dibutyl Phthalate (DIBP) | 1000 | mg/kg | 50 | ND | ND

**Notes:**

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series


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1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr$^{6+}$ and PBBs/PBDEs test method excluded).

**Pb/Cd/Hg/Cr$^{6+}$/PBBs/PBDEs Testing Flow Chart**

1. **Sample Preparation**
   - **Sample Measurement**

2. **Pb/Cd/Hg**
   - Acid digestion with microwave/hotplate
   - Filtration
   - Solution
   - 1) Alkali Fusion / Dry Ashing
   - 2) Acid to dissolve
   - ICP-OES/AAS
   - DATA

3. **PBBs/PBDEs**
   - Sample solvent extraction
   - Concentration/Dilution of extraction solution
   - Filtration
   - GC-MS
   - DATA

4. **Cr$^{6+}$**
   - Nonmetallic material
   - Metallic material
   - Boiling water extraction
   - Adding 1,5-diphenylcarbazide for color development
   - UV-Vis
   - DATA

5. **Others**
   - Dissolving by ultrasonication
   - Digesting at 150~160°C
   - Separating to get aqueous phase
   - pH adjustment
   - Adding 1,5-diphenylcarbazide for color development
   - UV-Vis
   - DATA

6. **Residue**
   - Digesting at 60°C by ultrasonication
   - Metallic material
   - Boiling water extraction
   - Adding 1,5-diphenylcarbazide for color development
   - UV-Vis
   - DATA

7. **Filtration**
   - Solution
   - Residue

8. **Solution**
   - Concentration/Dilution of extraction solution
   - Filtration
   - GC-MS
   - DATA

9. **ICP-OES/AAS**
   - DATA

10. **DATA**

**ATTACHMENTS**

**Pb/Cd/Hg/Cr$^{6+}$/PBBs/PBDEs Testing Flow Chart**
**ATTACHMENTS**

Phthalates Testing Flow Chart

1. Sample cutting / preparation
2. Sample Measurement
3. Solvent extraction
4. Concentration/Dilution
5. Filtration
6. GC-MS
7. DATA
Test Report

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Sample photo:

SGS authenticate the photo on original report only

*** End of Report ***