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:

Black Molded Polymer
Model/Part No.: Vectra A130
Country of Destination: USA

Sample Received Date: 8/31/2020
Testing Period: 9/1/2020 – 9/20/2020

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

Result Summary:

<table>
<thead>
<tr>
<th>Test Requested</th>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. RoHS Directive 2011/65/EU Annex II</td>
<td>PASS</td>
</tr>
<tr>
<td>3. Halogen Content (Cl, Br, I, F) of the submitted sample(s) with reference to BS EN 14582:2016</td>
<td>See Test Results</td>
</tr>
</tbody>
</table>

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

Prepared By:

Shaina Gibbons
Technical Report Writer, Chemistry Laboratory

Crystal Melecio
Report Writer, Chemistry Laboratory

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1. RoHS Directive 2011/65/EU Annex II

<table>
<thead>
<tr>
<th>Test Item(s):</th>
<th>Unit</th>
<th>Test Method</th>
<th>Results</th>
<th>MDL</th>
<th>Limit</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>ND</td>
<td>2</td>
<td>100</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-4:2013 (Determination of Pb by ICP-OES and /or ICP-MS)</td>
<td>ND</td>
<td>2</td>
<td>1000</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES and /or ICP-MS)</td>
<td>ND</td>
<td>2</td>
<td>1000</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>
<td>1000</td>
</tr>
<tr>
<td>Sum of PBBs</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-6:2015 (Determination of PBB and PBDE by GC-MS)</td>
<td>ND</td>
<td>-</td>
<td>1000</td>
</tr>
<tr>
<td>Monobromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Dibromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tribromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tetrabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Pentabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Hexabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Heptabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Octabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Nonabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Decabromobiphenyl</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Sum of PBDEs</td>
<td>mg/kg</td>
<td></td>
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<td>1000</td>
</tr>
<tr>
<td>Monobromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Dibromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
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<tr>
<td>Tribromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Tetrabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Pentabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
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<tr>
<td>Hexabromodiphenyl ether</td>
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<td>5</td>
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<tr>
<td>Heptabromodiphenyl ether</td>
<td>mg/kg</td>
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<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Octabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Nonabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Decabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Conclusion</td>
<td>/</td>
<td></td>
<td>PASS</td>
<td>/</td>
<td>/</td>
</tr>
</tbody>
</table>

Sample Description:
1. Black Molded Polymer

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Test Report

No. 4666929-CH01  Date: September 29, 2020  Page 3 of 13

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

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<table>
<thead>
<tr>
<th>Test Item(s):</th>
<th>Unit</th>
<th>Test Method</th>
<th>Results</th>
<th>MDL</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bis (2-ethylhexyl) Phthalate</td>
<td>mg/kg</td>
<td>IEC 62321-8:2017 (Determination of DEHP, BBP, DBP and DIBP by GC-MS)</td>
<td>ND</td>
<td>50</td>
<td>1000</td>
</tr>
<tr>
<td>(DEHP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Butyl Benzyl Phthalate (BBP)</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>50</td>
<td>1000</td>
</tr>
<tr>
<td>Dibutyl Phthalate (DBP)</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>50</td>
<td>1000</td>
</tr>
<tr>
<td>Diisobutyl Phthalate (DIBP)</td>
<td>mg/kg</td>
<td></td>
<td>ND</td>
<td>50</td>
<td>1000</td>
</tr>
</tbody>
</table>

Conclusion / PASS

Sample Description:
1. Black Molded Polymer

Note:
(a) mg/kg = ppm ; 0.1wt% = 1000 ppm
(b) ND = not detected
(c) MDL = Method Detection Limit
(d) = not regulated
(e) IEC 62321 series is equivalent to EN 62321 series
3. Halogen Content (Cl, Br, I, F) of the submitted sample(s) with reference to BS EN 14582:2016

With reference to BS EN 14582:2016 “Characterization of waste – Halogen and sulfur content – Oxygen Combustion in closed systems and determination methods”. Analysis was performed by Ion Chromatography.

<table>
<thead>
<tr>
<th>Test Items</th>
<th>Unit</th>
<th>Method Detection Limit</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halogen – Chlorine</td>
<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
<tr>
<td>CAS # 007782-50-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Halogen – Bromine</td>
<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
<tr>
<td>CAS # 007726-95-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Halogen – Fluorine</td>
<td>mg/kg</td>
<td>50</td>
<td>77.3</td>
</tr>
<tr>
<td>CAS # 007782-41-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Halogen – Iodine</td>
<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
<tr>
<td>CAS # 007553-56-2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sample Description:
1. Black Molded Polymer

Note:
1. mg/kg = milligram per kilogram
2. mg/kg = ppm
3. 1% = 10000 mg/kg (ppm)
4. ND = Not Detected
Testing was done at an SGS Affiliate Laboratory:

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>CAS_NO</th>
<th>Limit</th>
<th>Unit</th>
<th>MDL</th>
<th>033</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perfluorooctanoic acid (PFOA)</td>
<td>--</td>
<td>0.025</td>
<td>mg/kg</td>
<td>0.010</td>
<td>ND</td>
</tr>
<tr>
<td>PFOA-related substances</td>
<td>--</td>
<td>1</td>
<td>mg/kg</td>
<td>-</td>
<td>ND</td>
</tr>
<tr>
<td>1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS)</td>
<td>39108-34-4</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>Methyl perfluorooctanoate (Me-PFOA)</td>
<td>376-27-2</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>Ethyl perfluorooctanoate (Et-PFOA)</td>
<td>3108-24-5</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)</td>
<td>678-39-7</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)</td>
<td>27905-45-9</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)</td>
<td>1996-88-9</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>Perfluoro-1-iodooctane (PFOI)</td>
<td>507-63-1</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>Perfluorooctane sulfonates (PFOS) and its derivatives</td>
<td>--</td>
<td>1,000</td>
<td>mg/kg</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>Perfluorooctane sulfonates (PFOS)^</td>
<td>1763-23-1</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>N-ethylperfluoro-1-octanesulfonamide (EtFOSA)</td>
<td>4151-50-2</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
</tbody>
</table>


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## Test Item(s)

<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>CAS_NO</th>
<th>Limit</th>
<th>Unit</th>
<th>MDL</th>
<th>033</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-methylperfluoro-1-octanesulfonamide (MeFOSA)</td>
<td>31506-32-8</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)</td>
<td>1691-99-2</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>2-(N-methylperfluoro-1-octanesulfonamido) -ethanol (MeFOSE)</td>
<td>24448-09-7</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
<tr>
<td>Perfluorooctane sulfonamide (PFOSA)</td>
<td>754-91-6</td>
<td>-</td>
<td>mg/kg</td>
<td>1</td>
<td>ND</td>
</tr>
</tbody>
</table>

## Conclusion
PASS

## Test Part Description:

<table>
<thead>
<tr>
<th>Specimen No.</th>
<th>SGS Sample ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HKT20-032872.033</td>
<td>Dark grey plastic</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

## Notes:
(1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
(2) ^ PFOS refer to its derivatives including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7)
### Appendix 1

<table>
<thead>
<tr>
<th>Category</th>
<th>Decision Rule Statement</th>
</tr>
</thead>
</table>
| 1        | The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to) the expanded measurement uncertainty with a 95% coverage probability, \( w = 0.95 \) in ILAC-G5 09/2019 Clause 4.2.3.  
A. “Pass” - The measured value is within (or below/above) the acceptance limit, where the acceptance limit is below/above to the guard band.” or “Pass – The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.”.  
B. “Conditional Pass” - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals of one or more measured values exceeded/outs of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%.”.  
C. “Conditional Fail” - One or more measured values were observed out of tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false rejet risk is up to 50%.”.  
D. “Fail” - the measured value is out of (or below/above) the tolerance limit added/subtracted to the guard band.” or “Fail – One or more measured values were observed out of tolerance at the points tested.” The specific false reject risk is up to 2.5%. |
| 2        | The decision rule for conformity reporting is based on BS EN 1811-2011+A1:2015: Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin in Section 9.2 interpretation of results. |

4. The decision rule for conformity reporting is according to the EC 62321-7-1 Edition 1.0 2015-08 Section 7. Table 1 - Comparison to standard and interpretation of result.

5. The decision rule for conformity reporting is according to the EC 62321-3-1 Edition 1.0 2015-08 Annex A.3 interpretation of result.

6. The decision rule for conformity reporting is according to the G5/10 2012-2011 Annex A to H.

7. The decision rule for conformity reporting is according to the requested specification or standard (ASTM F863-17 section 4.3.5).

8. The decision rule for conformity reporting is according to the requested specification or standard (AS/NZS ISO 8124 Part 3 section 4.2).

*Remark* If the decision rule is not possible to be used and the uncertainty of the result is able to be provided, the uncertainty range of the result will be shown in the report. Otherwise, only result will be shown in the report.

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Flowchart for ROHS Testing:

1. The Cd, Pb, Hg contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.
2. Cr$^{6+}$ is performed only when total Cr is detected.
Flowchart for Phthalates

1. Cutting/Preparation
2. Weighing
3. Solvent Extraction
4. Concentrate / Dilute extracted solution
5. Filtration
6. GC-MS

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Halogen Testing Flow Chart

1. Sample cutting / preparation
2. Sample measurement
3. Combustion in Oxygen Bomb
4. Dissolved in absorption
5. Filtration
6. Analyzed by Ion Chromatography
7. Data Analysis

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PFOS/PFOA Testing Flow Chart

1. Sample cutting/preparation
2. Sample measurement
3. Solvent extraction
4. Concentration/Dilution
5. Filtration
6. LC-MS
7. DATA

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*** End of Report ***