Polypropylene Compounds

**Product Description**

*Hifax* TYC 1235X BLACK has a very high melt flow, very high flexural modulus, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) resin has an excellent balance of properties and processability. It is typically used for multiple automotive exterior applications.

**Regulatory Status**

For regulatory compliance information, see *Hifax* TYC 1235X BLACK [Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS)].

**Status**

Commercial: Active

**Availability**

North America

**Application**

Body Panels; Exterior Automotive Applications

**Market**

Automotive

**Processing Method**

Injection Molding

**Attribute**

Good Dimensional Stability; Good Impact Resistance; Good Moldability; High Flow; High Stiffness; Low Shrinkage; Paintable

<table>
<thead>
<tr>
<th>Typical Properties</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>30</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density, (23 °C, Method A)</td>
<td>1.07</td>
<td>g/cm³</td>
<td>ISO 1183-1</td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flexural Modulus, (23 °C)</td>
<td>2800</td>
<td>MPa</td>
<td>ISO 178</td>
</tr>
<tr>
<td>Tensile Stress at Yield, (23 °C)</td>
<td>23</td>
<td>MPa</td>
<td>ISO 527-1, -2</td>
</tr>
<tr>
<td><strong>Impact</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-axial Impact Strength, (-10 °C, 2.2 m/s, 3.2 mm plaque)</td>
<td>22</td>
<td>J</td>
<td>ASTM D3763</td>
</tr>
<tr>
<td>Energy at max load (ductile failure mode).</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Additional Information**

Mold Shrinkage

Please contact LyondellBasell for shrinkage recommendations.

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*Hifax* TYC 1235X BLACK

Recipient Tracking #: 2328950

Date: 3/28/2020
Notes
These are typical property values not to be construed as specification limits.

Processing Techniques
Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information
For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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