**Product Description**

*Hifax* TRS 123D NAT medium melt flow, 1000 MPa flexural modulus, natural, reactor grade thermoplastic elastomeric olefin (TEO) resin has an excellent balance of impact, stiffness, paintability, and processability that is typically used for all-terrain vehicle (ATV) components. It is based on material produced from LyondellBasell’s proprietary Catalloy process.

**Regulatory Status**

For regulatory compliance information, see *Hifax* TRS 123D NAT [Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS)].

**Status**

Commercial: Active

**Availability**

North America

**Application**

Body Panels; Exterior Automotive Applications; Sports, Leisure & Toys

**Market**

Outdoor Equipment

**Processing Method**

Injection Molding

**Attribute**

Good Colorability; Good Moldability; Good Processability; Good Stiffness; High Impact Resistance; High Shrinkage; Medium Flow; Paintable

<table>
<thead>
<tr>
<th>Typical Properties</th>
<th>Nominal Value</th>
<th>English Units</th>
<th>Nominal Value</th>
<th>SI Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>17 g/10 min</td>
<td>17 g/10 min</td>
<td></td>
<td></td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density, (23 °C, Method A)</td>
<td>0.89 g/cm³</td>
<td>0.89 g/cm³</td>
<td></td>
<td></td>
<td>ISO 1183-1</td>
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<tr>
<td>Mechanical</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Flexural Modulus, (23 °C)</td>
<td>1000 MPa</td>
<td></td>
<td></td>
<td></td>
<td>ISO 178</td>
</tr>
<tr>
<td>Tensile Stress at Yield, (23 °C)</td>
<td>18 MPa</td>
<td>18 MPa</td>
<td></td>
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<td>ISO 527-1,-2</td>
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<tr>
<td>Tensile Strain at Yield, (23 °C)</td>
<td>8 %</td>
<td>8 %</td>
<td></td>
<td></td>
<td>ISO 527-1,-2</td>
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<tr>
<td>Impact</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Gardner Impact, (-30 °C, Geometry GC)</td>
<td>225 in-lbs</td>
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<td>ASTM D5420</td>
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<tr>
<td>Multi-axial Impact Strength, (-30 °C, 2.2 m/s, 3.2 mm plaque)</td>
<td>25 J</td>
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<td>ASTM D3763</td>
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</tbody>
</table>

**Additional Information**

Mold Shrinkage

Please contact LyondellBasell for shrinkage recommendations.
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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