Technical Data Sheet

Hifax TRS 123D NAT

Polypropylene Compounds

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

Typical Properties

<table>
<thead>
<tr>
<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><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>17</td>
<td>g/10 min</td>
<td>17</td>
<td>g/10 min</td>
</tr>
<tr>
<td>Density, (23 °C, Method A)</td>
<td>0.89</td>
<td>g/cm³</td>
<td>0.89</td>
<td>g/cm³</td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flexural Modulus, (23 °C)</td>
<td>1000</td>
<td>MPa</td>
<td></td>
<td>ISO 178</td>
</tr>
<tr>
<td>Tensile Stress at Yield, (23 °C)</td>
<td>18</td>
<td>MPa</td>
<td></td>
<td>ISO 527-1,-2</td>
</tr>
<tr>
<td>Tensile Strain at Yield, (23 °C)</td>
<td>8 %</td>
<td></td>
<td>8 %</td>
<td></td>
</tr>
<tr>
<td><strong>Impact</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gardner Impact, (-30 °C, Geometry GC)</td>
<td>225</td>
<td>in-lbs</td>
<td></td>
<td>ASTM D5420</td>
</tr>
<tr>
<td>Multi-axial Impact Strength, (-30 °C, 2.2 m/s, 3.2 mm plaque)</td>
<td>25</td>
<td>J</td>
<td></td>
<td>ASTM D3763</td>
</tr>
<tr>
<td>Energy at max load (ductile failure mode).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</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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