Technical Data Sheet

Pro-fax 8523

Polypropylene, Impact Copolymer

Product Description

Pro-fax 8523 very high impact polypropylene copolymer is available in pellet form. This resin is typically used in extrusion or injection molding applications and offers excellent low temperature impact resistance.

ASTM and ISO-based versions of the technical data sheet are available for Pro-fax 8523.

Regulatory Status

For regulatory compliance information, see Pro-fax 8523 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status
Commercial: Active

Availability
North America

Application
Automotive Parts

Market
Automotive; Consumer Products

Processing Method
Injection Molding; Sheet and Profile Extrusion

Attribute
Low Temperature Impact Resistance

<table>
<thead>
<tr>
<th>Typical Properties</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>4.0</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density, (23 °C, Method A)</td>
<td>0.90</td>
<td>g/cm³</td>
<td>ISO 1183-1</td>
</tr>
<tr>
<td>Mechanical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flexural Modulus, (23 °C)</td>
<td>970</td>
<td>MPa</td>
<td>ISO 178</td>
</tr>
<tr>
<td>Tensile Stress at Yield, (23 °C)</td>
<td>21</td>
<td>MPa</td>
<td>ISO 527-1,-2</td>
</tr>
<tr>
<td>Tensile Strain at Yield, (23 °C)</td>
<td>9 %</td>
<td></td>
<td>ISO 527-1,-2</td>
</tr>
<tr>
<td>Impact</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charpy Impact Strength - Notched</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(23 °C, when Complete Break)</td>
<td>18</td>
<td>kJ/m²</td>
<td>ISO 179</td>
</tr>
<tr>
<td>(23 °C, when Partial/Hinge Breaks)</td>
<td>40</td>
<td>kJ/m²</td>
<td>ISO 179</td>
</tr>
</tbody>
</table>
Notes
These are typical property values not to be construed as specification limits.

Automotive Specifications
- FCA MS-DB500 CPN 3478

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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