Technical Data Sheet

Pro-fax RP448S

Polypropylene, Random Copolymer

Product Description

Pro-fax RP448S high melt flow, clarified polypropylene random copolymer is available in pellet form. This resin is typically used in injection molding and injection-stretch blow molding applications and offers very good see-through and contact clarity.

Regulatory Status

For regulatory compliance information, see Pro-fax RP448S Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status

Commercial: Active

Availability

North America

Application

Clear Containers; Housewares; Sports, Leisure & Toys; TWIM Food Containers

Market

Consumer Products; Rigid Packaging

Processing Method

Injection Molding; Injection Stretch Blow Molding

Attribute

Contains Antistat; High Clarity

Typical Properties

<table>
<thead>
<tr>
<th>Property</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 Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>40</td>
<td>g/10 min</td>
<td>40</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>0.90</td>
<td>g/cm³</td>
<td>0.90</td>
<td>g/cm³</td>
<td>ASTM D792</td>
</tr>
<tr>
<td>Mechanical Flexural Modulus</td>
<td>145000</td>
<td>psi</td>
<td>1000</td>
<td>MPa</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>(0.05 in/min, 1% Secant, Procedure A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1.3 mm/min, 1% Secant, Procedure A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Strength at Yield (2 in/min)</td>
<td>4000</td>
<td>psi</td>
<td>28</td>
<td>MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>(50 mm/min)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Elongation at Yield</td>
<td>12</td>
<td>%</td>
<td>12</td>
<td>%</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Impact Notched Izod Impact Strength</td>
<td></td>
<td>ft-lb/in</td>
<td>43</td>
<td>J/m</td>
<td>ASTM D256</td>
</tr>
<tr>
<td>(73 °F, Method A)</td>
<td>0.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(23 °C, Method A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thermal Deflection Temperature Under Load</td>
<td>185</td>
<td>°F</td>
<td>83</td>
<td>°C</td>
<td>ASTM D648</td>
</tr>
<tr>
<td>(66 psi, Unannealed)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0.45 MPa, Unannealed)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optical Haze, (45 mil)</td>
<td>8</td>
<td>%</td>
<td>8</td>
<td>%</td>
<td>ASTM D1003</td>
</tr>
</tbody>
</table>
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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