Technical Data Sheet

Pro-fax PH350

Polypropylene, Homopolymer

Product Description

Pro-fax PH350 general-purpose polypropylene homopolymer is available in spherical particle form. This resin has very minimal stabilization, which allows wide design latitude in compounding applications. Additional stabilization is required to protect the resin during melt processing and throughout its useful life.

Please note that any additives compounded into this resin will require a re-assessment of its FDA status.

Regulatory Status

For regulatory compliance information, see Pro-fax PH350 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status

Commercial: Active

Availability

North America

Application

Colour Concentrates; Polymer Modifier; Wood Composites

Market

Compounding

Processing Method

Compounding

Attribute

Dispersible; Good Stiffness; High Filler Loading Capability

<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>3.5</td>
<td>g/10 min</td>
<td>3.5</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>
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<tr>
<td>Mechanical</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>200000</td>
<td>psi</td>
<td>1380</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>
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</tr>
<tr>
<td>(1.3 mm/min, 1% Secant, Procedure A)</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Tensile Strength at Yield</td>
<td>4800</td>
<td>psi</td>
<td>33</td>
<td>MPa</td>
<td>ASTM D638</td>
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<tr>
<td>(2 in/min)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>(50 mm/min)</td>
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<tr>
<td>Tensile Elongation at Yield</td>
<td>12</td>
<td>%</td>
<td>12</td>
<td>%</td>
<td>ASTM D638</td>
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<tr>
<td>Impact</td>
<td></td>
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<tr>
<td>Notched Izod Impact Strength</td>
<td>1.0</td>
<td>ft-lb/in</td>
<td>53</td>
<td>J/m</td>
<td>ASTM D256</td>
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<tr>
<td>(73 °F, Method A)</td>
<td></td>
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</tr>
<tr>
<td>(23 °C, Method A)</td>
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<tr>
<td>Thermal</td>
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<tr>
<td>Deflection Temperature Under Load</td>
<td>190</td>
<td>°F</td>
<td>88</td>
<td>°C</td>
<td>ASTM D648</td>
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<tr>
<td>(66 psi, Unannealed)</td>
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<tr>
<td>(0.45 MPa, Unannealed)</td>
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</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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