Technical Data Sheet

Pro-fax 6331

Polypropylene, Homopolymer

Product Description

Pro-fax 6331 general purpose polypropylene homopolymer is available in pellet form. This resin is typically used in injection molding applications.

Regulatory Status

For regulatory compliance information, see Pro-fax 6331 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status

Commercial: Active

Availability

North America

Application

Caps & Closures; Containers; Food Packaging Film

Market

Consumer Products; Flexible Packaging; Rigid Packaging

Processing Method

Cast Film; Compounding; Injection Molding

Attribute

General Purpose

Typical Properties

<table>
<thead>
<tr>
<th>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>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>12</td>
<td>g/10 min</td>
<td>12</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>Flexural Modulus</td>
<td>210000</td>
<td>psi</td>
<td>1450</td>
<td>MPa</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>Tensile Strength at Yield</td>
<td>4900</td>
<td>psi</td>
<td>34</td>
<td>MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Tensile Elongation at Yield</td>
<td>11 %</td>
<td></td>
<td>11 %</td>
<td></td>
<td>ASTM D638</td>
</tr>
</tbody>
</table>

Impact

Notched Izod Impact Strength

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Nominal Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>(73 °F, Method A)</td>
<td>0.6 ft-lb/in</td>
<td>ASTM D256</td>
</tr>
<tr>
<td>(23 °C, Method A)</td>
<td>32 J/m</td>
<td>ASTM D256</td>
</tr>
</tbody>
</table>

Thermal

Deflection Temperature Under Load

<table>
<thead>
<tr>
<th>Condition</th>
<th>Nominal Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>(66 psi, Unannealed)</td>
<td>200 °F</td>
<td>ASTM D648</td>
</tr>
<tr>
<td>(0.45 MPa, Unannealed)</td>
<td>93 °C</td>
<td>ASTM D648</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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