Technical Data Sheet

Pro-fax RP323M

Polypropylene, Random Copolymer

Product Description
Pro-fax RP323M is a barefoot polypropylene random copolymer available in pellet form. This resin is typically used in cast film packaging applications. Typical properties of cast film made with this resin are excellent clarity and gloss, as well as improved cold temperature impact resistance and broader heat seal range compared to homopolymer polypropylene.

Regulatory Status
For regulatory compliance information, see Pro-fax RP323M Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status
Commercial: Active

Availability
North America

Application
Bags & Pouches; Breathable Film; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Hygiene Film; Peelable Film; Stationery Film; Stretch Wrap Film; Twist Wrap Film

Market
Flexible Packaging

Processing Method
Cast Film

Attribute
Good Heat Seal; Good Processability; Opticals

<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><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>8.0</td>
<td>g/10 min</td>
<td>8.0</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><strong>Mechanical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>120000 psi</td>
<td></td>
<td>830</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</td>
<td>3600 psi</td>
<td></td>
<td>24.8</td>
<td>MPa</td>
<td>ASTM D638</td>
</tr>
<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>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Elongation at Yield</td>
<td>14 %</td>
<td></td>
<td>14 %</td>
<td></td>
<td>ASTM D638</td>
</tr>
</tbody>
</table>

Impact
Notched Izod Impact Strength
(73 °F, Method A) 1.2 ft-lb/in ASTM D256
(23 °C, Method A) 64 J/m ASTM D256

Thermal
Deflection Temperature Under Load
(66 psi, Unannealed) 167 °F ASTM D648
(0.45 MPa, Unannealed) 75 °C ASTM D648
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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