Technical Data Sheet

Alathon 9302

High Density Polyethylene

Product Description

Alathon 9302 is a high molecular weight, polyethylene copolymer resin selected by customers for sheet extrusion. Alathon 9302 exhibits outstanding toughness and melt strength, excellent creep resistance, and broad molecular weight distribution.

Regulatory Status

For regulatory compliance information, see Alathon 9302 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status

Commercial: Active

Availability

North America

Application

General Sheet Extrusion

Market

Rigid Packaging

Processing Method

Sheet and Profile Extrusion

Typical Properties

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Typical Properties</th>
<th>Nominal Value</th>
<th>English Units</th>
<th>Nominal Value</th>
<th>SI Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td>Melt Flow Rate, (190 °C/2.16 kg)</td>
<td>0.06</td>
<td>g/10 min</td>
<td>0.06</td>
<td>g/10 min</td>
</tr>
<tr>
<td></td>
<td>Density, (23 °C)</td>
<td>0.949</td>
<td>g/cm³</td>
<td>0.949</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Flexural Modulus, (1% Secant)</td>
<td>134000</td>
<td>psi</td>
<td>924</td>
<td>MPa</td>
</tr>
<tr>
<td></td>
<td>Tensile Strength at Yield</td>
<td>3690</td>
<td>psi</td>
<td>25.4</td>
<td>MPa</td>
</tr>
<tr>
<td></td>
<td>Tensile Elongation at Break</td>
<td>&gt;600</td>
<td>%</td>
<td>&gt;600</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>Environmental Stress Crack Resistance, Fₜ₀ (100% Igepal®, Cond B)</td>
<td>&gt;1000</td>
<td>hr</td>
<td>&gt;1000</td>
<td>hr</td>
</tr>
<tr>
<td>Impact</td>
<td>Tensile Impact Strength</td>
<td>188</td>
<td>ft-lb/in²</td>
<td>395</td>
<td>kJ/m²</td>
</tr>
<tr>
<td>Thermal</td>
<td>Vicat Softening Temperature</td>
<td>122</td>
<td>°F</td>
<td>50</td>
<td>°C</td>
</tr>
<tr>
<td></td>
<td>Low Temperature Brittleness</td>
<td>&lt; -71</td>
<td>°F</td>
<td>&lt; -57</td>
<td>°C</td>
</tr>
</tbody>
</table>

Alathon 9302
Recipient Tracking #: 2595614

Page 1 of 2
Notes
Igepal® is a registered trademark of Rhodia.
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/.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer
Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks
The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.