Lupolen 4261AG

Technical Data Sheet

High Density Polyethylene

Product Description
Lupolen 4261AG is a high molecular weight high density polyethylene. Typical customer applications include automotive fuel tanks. It is supplied in pellets and is stabilized with antioxidants for the extrusion process. The product features an outstanding Environmental Stress Cracking Resistance (ESCR), good chemical resistance in combination with an excellent low temperature impact resistance. Typical processes include blow molding and thermoforming.

Lupolen 4261AG is not intended for use in medical and pharmaceutical applications. The product can not be used for food contact applications.

Regulatory Status
For regulatory compliance information, see Lupolen 4261AG Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status
Commercial: Active

Availability
Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America

Application
Fuel Tanks; Non-fuel Reservoirs

Market
Automotive

Processing Method
Extrusion Blow Molding; Thermoforming

Attribute
Antioxidant; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Melt Flow Rate, (190 °C/21.6 kg)</td>
<td>6.0</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>0.945</td>
<td>g/cm³</td>
<td>ASTM D1505</td>
</tr>
<tr>
<td>Mechanical Flexural Modulus</td>
<td>1070</td>
<td>MPa</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>Tensile Strength at Yield, (50 mm/min)</td>
<td>23.1</td>
<td>MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Tensile Elongation at Break, (50 mm/min)</td>
<td>600</td>
<td>%</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Environmental Stress Crack Resistance, F_s0 (100% Igepal®, Cond A)</td>
<td>&gt;2000</td>
<td>hr</td>
<td>ASTM D1693</td>
</tr>
</tbody>
</table>

Processing Parameters
Melt Temperature
180 - 240 °C
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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