Hostalen PP HP1886

Polypropylene, Random Copolymer

Product Description

Hostalen PP HP1886 is a very low flow random copolymer with good stiffness/toughness balance, outstanding creep and stress cracking resistance. Hostalen PP HP1886 features low haze and yellowing resistance in contact with cooling water. Typical customer use is automotive expansion tanks. Hostalen PP HP1886 is not intended for medical and pharmaceutical applications.

Regulatory Status

For regulatory compliance information, see Hostalen PP HP1886 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

Non-fuel Reservoirs; Underhood

Market

Automotive

Processing Method

Injection Molding

Attribute

Good Chemical Resistance; Good Heat Resistance; Good Stiffness; Good Toughness; High Creep Resistance; Low Flow

Typical Properties

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Nominal Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Flow Rate, (230 °C/5.0 kg)</td>
<td>1.4</td>
<td>g/10 min</td>
</tr>
<tr>
<td>Density</td>
<td>0.90</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Tensile Modulus, (1% Secant)</td>
<td>1400</td>
<td>MPa</td>
</tr>
<tr>
<td>Tensile Stress at Yield, (23 °C, 50 mm/min)</td>
<td>36</td>
<td>MPa</td>
</tr>
<tr>
<td>Tensile Strain at Yield, (23 °C, 50 mm/min)</td>
<td>10.3</td>
<td>%</td>
</tr>
<tr>
<td>Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)</td>
<td>11</td>
<td>kJ/m²</td>
</tr>
<tr>
<td>Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)</td>
<td>No Break</td>
<td></td>
</tr>
<tr>
<td>Vicat Softening Temperature, (A50)</td>
<td>151</td>
<td>°C</td>
</tr>
<tr>
<td>Heat Deflection Temperature A, (1.80 MPa, Unannealed)</td>
<td>54</td>
<td>°C</td>
</tr>
<tr>
<td>Heat Deflection Temperature B, (0.45 MPa, Unannealed)</td>
<td>101</td>
<td>°C</td>
</tr>
</tbody>
</table>

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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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