Technical Data Sheet

Moplen HP462R

Polypropylene, Homopolymer

Product Description
Moplen HP462R is a polypropylene homopolymer used for extrusion applications. Moplen HP462R has a very narrow molecular weight distribution and is formulated with an anti-gasfading stabilisation package. Moplen HP462R is used for the production of continuous filaments. Typical applications are high-tenacity yarns (HTY) and spunbond nonwovens.

Status
Commercial: Active

Availability
Africa-Middle East; Asia-Pacific; Europe

Application
Filament Yarn; Geotextile & Agriculture; Hygiene Nonwoven

Market
Textile

Processing Method
Continuous Filament/Spinning; Spunbond

Attribute
Homopolymer; Narrow Molecular Weight Distribution

<table>
<thead>
<tr>
<th>Typical Properties</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>25</td>
<td>g/10 min</td>
<td>ISO 1133-1</td>
</tr>
<tr>
<td>Density</td>
<td>0.900</td>
<td>g/cm³</td>
<td>ISO 1183-1</td>
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<tr>
<td>Mechanical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>1300</td>
<td>N/mm²</td>
<td>ISO 178</td>
</tr>
<tr>
<td>Tensile Stress at Break, (23 °C, 50 mm/min)</td>
<td>20</td>
<td>N/mm²</td>
<td>ISO 527-1, -2</td>
</tr>
<tr>
<td>Tensile Stress at Yield, (23 °C, 50 mm/min)</td>
<td>33</td>
<td>N/mm²</td>
<td>ISO 527-1, -2</td>
</tr>
<tr>
<td>Tensile Strain at Break, (23 °C, 50 mm/min)</td>
<td>650</td>
<td>%</td>
<td>ISO 527-1, -2</td>
</tr>
<tr>
<td>Tensile Strain at Yield, (23 °C, 50 mm/min)</td>
<td>11</td>
<td>%</td>
<td>ISO 527-1, -2</td>
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<tr>
<td>Thermal</td>
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<tr>
<td>Vicat Softening Temperature, (A50)</td>
<td>153</td>
<td>°C</td>
<td>ISO 306</td>
</tr>
<tr>
<td>Deflection Temperature Under Load, (0.45 MPa, Unannealed)</td>
<td>86</td>
<td>°C</td>
<td>ISO 75B-1, -2</td>
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</tbody>
</table>