**PRODUCT INFORMATION**

**High-performance Polypropylene for Rigid Packaging Applications**

Broad product portfolio to meet multiple conversion processes and diversified package designs.

For more than 30 years, LyondellBasell has supplied innovative resins to the rigid packaging market. Today, with a broad range of homopolymer polypropylene resins, with high stiffness and good optical clarity, the resins are the material of choice for rigid packaging applications.

Manufactured at the Geelong site in Australia, our comprehensive portfolio of advanced resins consists of *Adstif* high crystalline, nucleated polypropylene (PP) homopolymers and *Moplen* homopolymer, high performance, impact enhanced thermoforming grades.

**Product Benefits**
- High stiffness
- Good optical properties
- Good dimensional stability at elevated temperatures
- Opportunity to down gauge parts

**Some Typical Applications**

- Thermoformed Articles
- Housewares
- Food Packaging

**Resin Properties**

<table>
<thead>
<tr>
<th>Conversion Process</th>
<th>Grade</th>
<th>MFR (g/10min)</th>
<th>Description</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermoforming</td>
<td><em>Moplen</em> HP555E</td>
<td>0.8</td>
<td>Low meltflow</td>
<td>Thermoformed trays and blow moulding articles</td>
</tr>
<tr>
<td></td>
<td><em>Moplen</em> HP555G</td>
<td>1.3</td>
<td>Low meltflow</td>
<td>Thermoformed trays and blow moulding articles</td>
</tr>
<tr>
<td></td>
<td><em>Moplen</em> HP401H</td>
<td>2.2</td>
<td>Moderate meltflow</td>
<td>Thermoformed trays and blow moulding articles</td>
</tr>
<tr>
<td></td>
<td><em>Adstif</em> HA899J</td>
<td>2.5</td>
<td>Superior high stiffness</td>
<td>Thermoformed cups and trays</td>
</tr>
<tr>
<td>Injection Moulding</td>
<td><em>Moplen</em> HP400L</td>
<td>6</td>
<td>Moderate meltflow, good stiffness</td>
<td>Housewares</td>
</tr>
<tr>
<td></td>
<td><em>Moplen</em> HP400N</td>
<td>11</td>
<td>Moderate meltflow, good stiffness</td>
<td>Closures, housewares</td>
</tr>
<tr>
<td></td>
<td><em>Moplen</em> HP548S</td>
<td>35</td>
<td>High flow, nucleated</td>
<td>Thin wall articles, closures</td>
</tr>
<tr>
<td></td>
<td><em>Moplen</em> HP741T</td>
<td>60</td>
<td>High flow, nucleated</td>
<td>Thin wall articles</td>
</tr>
<tr>
<td></td>
<td><em>Moplen</em> HP742U</td>
<td>90</td>
<td>Very high meltflow, nucleated</td>
<td>Thin wall articles</td>
</tr>
<tr>
<td></td>
<td><em>Moplen</em> HP743V</td>
<td>120</td>
<td>Ultra high meltflow, nucleated</td>
<td>Thin wall articles</td>
</tr>
</tbody>
</table>

Note: *Typical properties, not to be considered as specifications.*
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(iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
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