## Product Description

*Moplen* HP500D is a high molecular weight polypropylene homopolymer resin, with good stiffness, good heat resistance, low sagging, low yellowness, low odor, and excellent chemical resistance. Typical customer applications are extrusion of sheets, profiles and non-pressure pipes, as well as for trays and containers, for food or electronic components.

## Regulatory Status

For regulatory compliance information, see *Moplen* HP500D [Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS)](#).

### Status

Commercial: Active

### Availability

Africa-Middle East; Asia-Pacific; Australia and New Zealand

### Application

Containers; General Sheet Extrusion; Thermoformed Food Containers

### Market

Consumer Products; Rigid Packaging

### Processing Method

Sheet; Sheet and Profile Extrusion; Thermoforming

### Attribute

High Molecular Weight; High Stiffness; Homopolymer

### Typical Properties

<table>
<thead>
<tr>
<th>Physical Property</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>0.5</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density</td>
<td>0.90</td>
<td>g/cm³</td>
<td>ASTM D792</td>
</tr>
<tr>
<td>Mechanical Property</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>1560</td>
<td>MPa</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>Tensile Strength at Yield</td>
<td>35</td>
<td>MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Tensile Elongation at Yield</td>
<td>12</td>
<td>%</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Impact</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Notched Izod Impact Strength, (23 °C)</td>
<td>104</td>
<td>J/m</td>
<td>ASTM D256</td>
</tr>
<tr>
<td>Thermal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deflection Temperature Under Load</td>
<td>103</td>
<td>°C</td>
<td>ASTM D648</td>
</tr>
</tbody>
</table>

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*Moplen* HP500D

Technical Data Sheet

Polypropylene, Homopolymer

LyondellBasell

Technical Data Sheet

Date: 3/28/2020

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Notes
These are typical property values not to be construed as specification limits.

Company Information
For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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