Adstif HA5029
Polypropylene, Homopolymer

Product Description
Adstif HA5029 is a high crystallinity polypropylene homopolymer with extremely high stiffness, high flowability, high gloss, high HDT, and has long term heat resistance. Typical customer applications are parts for electrical appliances such as electric kettle, coffee maker, electric fan housing, and also for TWIM and food containers. It is also used by customers for parts of automotive interior trim.

Regulatory Status
For regulatory compliance information, see Adstif HA5029 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status
Commercial: Active

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

Application
Housewares; Small Appliances

Market
Consumer Products; Electrical / Electronics

Processing Method
Injection Molding

Attribute
Good Processability; Good Thermal Aging Resistance; High Stiffness; Homopolymer

### Typical Properties

<table>
<thead>
<tr>
<th>Physical</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>65</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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural Modulus</td>
<td>2200</td>
<td>MPa</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>Tensile Strength at Yield</td>
<td>41</td>
<td>MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Tensile Elongation at Yield</td>
<td>6</td>
<td>%</td>
<td>ASTM D638</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Impact</th>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Notched Izod Impact Strength, (23 °C)</td>
<td>20</td>
<td>J/m</td>
<td>ASTM D256</td>
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</table>

<table>
<thead>
<tr>
<th>Hardness</th>
<th></th>
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<tbody>
<tr>
<td>Rockwell Hardness, (R-Scale)</td>
<td>117</td>
<td></td>
<td>ASTM D785</td>
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</table>

<table>
<thead>
<tr>
<th>Thermal</th>
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<tbody>
<tr>
<td>Deflection Temperature Under Load, (0.46 N/mm²)</td>
<td>140</td>
<td>°C</td>
<td>ASTM D648</td>
</tr>
</tbody>
</table>
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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