**Adstif®HA801U**

**Polypropylene, Homopolymer**

**Product Description**
Adstif®HA801U very high melt flow, nucleated polypropylene homopolymer is available in pellet form. This resin is typically used in high-speed injection molding of thin-walled parts, and as a building block for compounded applications that require high flow and high stiffness.

**Regulatory Status**
For regulatory compliance information, see Adstif®HA801U Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

**Status**
Commercial: Active

**Availability**
North America

**Application**
Colour Concentrates; Polymer Modifier; TWIM Food Containers

**Market**
Compounding; Rigid Packaging

**Processing Method**
Compounding; Injection Molding

**Attribute**
Fast Cycle (Production); High Flow; High Heat Resistance; High Stiffness

### Typical Properties

<table>
<thead>
<tr>
<th>Physical</th>
<th>Nominal Value</th>
<th>English Units</th>
<th>Nominal Value</th>
<th>SI 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>65</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>0.90</td>
<td>g/cm³</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>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural Modulus</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0.05 in/min, 1% Secant, Procedure A)</td>
<td>290000</td>
<td>psi</td>
<td>2000</td>
<td>MPa</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>(1.3 mm/min, 1% Secant, Procedure A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Strength at Yield</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2 in/min)</td>
<td>6100</td>
<td>psi</td>
<td>42</td>
<td>MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>(50 mm/min)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Elongation at Yield</td>
<td>6 %</td>
<td></td>
<td>6 %</td>
<td></td>
<td>ASTM D638</td>
</tr>
</tbody>
</table>

**Impact**

| Notched Izod Impact Strength    |               |               |               |          |              |
| (73 °F, Method A)               | 0.3           | ft-lb/in      | 16            | J/m      | ASTM D256    |
| (23 °C, Method A)               |               |               |               |          |              |

**Thermal**

<table>
<thead>
<tr>
<th>Deflection Temperature Under Load</th>
<th>Nominal Value</th>
<th>Temperature Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>(66 psi, Unannealed)</td>
<td>270</td>
<td>°F</td>
<td>ASTM D648</td>
</tr>
<tr>
<td>(0.45 MPa, Unannealed)</td>
<td></td>
<td>132 °C</td>
<td></td>
</tr>
</tbody>
</table>
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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