Technical Data Sheet
Hifax ETA4161U P23494 J DEERE GRY
Polypropylene Compounds

Product Description
Hifax ETA4161U P23494 J DEERE GRY fractional melt flow, medium flexural modulus, thermoplastic polyolefin (TPO) is typically used as a cap layer for interior and exterior applications that require good scratch and mar resistance and can improve stress whitening issues. This extrusion grade material exhibits enhanced melt strength for a wide thermoforming process window.

Regulatory Status
For regulatory compliance information, see Hifax ETA4161U P23494 J DEERE GRY Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status
Commercial: Active
Availability
North America
Application
Industrial; Panels & Profiles
Market
Automotive
Processing Method
Injection Molding

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>0.60</td>
<td>g/10 min</td>
<td>ISO 1133-1</td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>0.91</td>
<td>g/cm³</td>
<td>ISO 1183-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural Modulus, (23 °C, 2 mm/min)</td>
<td>1150</td>
<td>MPa</td>
<td>ISO 178</td>
</tr>
<tr>
<td>Tensile Stress at Yield, (23 °C, 50 mm/min)</td>
<td>28</td>
<td>MPa</td>
<td>ISO 527-1, -2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Impact</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-axial Impact Strength, (23° C, 2.2 m/s, 3.2 mm plaque)</td>
<td>23</td>
<td>J</td>
<td>ASTM D3763</td>
</tr>
<tr>
<td>Energy at Peak Force, Material Exhibits Ductile Behavior</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional Information
Mold Shrinkage
Please contact LyondellBasell for shrinkage recommendations.
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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