## Technical Data Sheet

**Hifax CA 12 A**

Catalloy

### Product Description

*Hifax CA 12 A* is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell’s proprietary Catalloy process technology. It is suitable for industrial applications where a combination of good processability and excellent softness is required. *Hifax CA 12 A* exhibits low stiffness, low hardness and good impact resistance. The material shows high compatibility to other polyolefins as well as to other soft plastics. *Hifax CA 12 A* is cross linkable. The grade is available in natural pellet form.

### Regulatory Status

For regulatory compliance information, see *Hifax CA 12 A* Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

### Status

- **Commercial:** Active

### Availability

- Africa-Middle East
- Asia-Pacific
- Australia and New Zealand
- Europe
- North America
- South & Central America

### Application

- Bottles for Industrial Use
- Interior Automotive Applications
- Polymer Modifier
- TPO Foils and Skins
- Wire & Cable

### Market

- Automotive
- Electrical / Electronics
- Industrial, Building & Construction
- Wire & Cable

### Processing Method

- Calendering
- Compounding
- Extrusion Blow Molding
- Extrusion Flat-die
- Sheet
- Wire & Cable

### Attribute

- Good Chemical Resistance
- Good Flexibility
- Good Impact Resistance
- Haptics
- Low Hardness
- Low Temperature Impact Resistance
- Matte
- Medium Heat Resistance

### Typical Properties

#### Nominal Value

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melt Flow Rate, (230 °C/2.16 kg)</td>
<td>0.8</td>
<td>g/10 min</td>
<td>ISO 1133-1</td>
</tr>
<tr>
<td>Density, (23 °C, Method A)</td>
<td>0.88</td>
<td>g/cm³</td>
<td>ISO 1183-1</td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>330</td>
<td>MPa</td>
<td>ISO 178</td>
</tr>
<tr>
<td>Tensile Stress at Break</td>
<td>13</td>
<td>MPa</td>
<td>ISO 527-1,-2</td>
</tr>
<tr>
<td>Tensile Stress at Yield</td>
<td>9</td>
<td>MPa</td>
<td>ISO 527-1,-2</td>
</tr>
<tr>
<td>Tensile Strain at Break</td>
<td>550</td>
<td>%</td>
<td>ISO 527-1,-2</td>
</tr>
<tr>
<td>Tensile Strain at Yield</td>
<td>35</td>
<td>%</td>
<td>ISO 527-1,-2</td>
</tr>
<tr>
<td><strong>Impact</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charpy Impact Strength - Notched</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(23 °C)</td>
<td>70</td>
<td>kJ/m²</td>
<td>ISO 179</td>
</tr>
<tr>
<td>(-20 °C)</td>
<td>100</td>
<td>kJ/m²</td>
<td>ISO 179</td>
</tr>
<tr>
<td>(-40 °C)</td>
<td>100</td>
<td>kJ/m²</td>
<td>ISO 179</td>
</tr>
<tr>
<td><strong>Hardness</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shore Hardness, (Shore D)</td>
<td>36</td>
<td></td>
<td>ISO 868</td>
</tr>
<tr>
<td><strong>Thermal</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicat Softening Temperature, (A50)</td>
<td>78</td>
<td>°C</td>
<td>ISO 306</td>
</tr>
<tr>
<td>Heat Deflection Temperature B, (0.45 MPa, Unannealed)</td>
<td>50</td>
<td>°C</td>
<td>ISO 75B-1,-2</td>
</tr>
</tbody>
</table>

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**LyondellBasell**

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Date: 3/27/2020
### 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/](http://www.lyb.com/).

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