# Technical Data Sheet

**EVAL™ E171B**

44 mol% Ethylene Vinyl-Alcohol Copolymer

## Standard Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFR</td>
<td>g/10min</td>
<td>ISO1133 (190°C)</td>
<td>1.7</td>
</tr>
<tr>
<td>Density</td>
<td>10³ kg/m³</td>
<td>ISO1183-3</td>
<td>1.14</td>
</tr>
</tbody>
</table>

## Thermal Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Temperature</td>
<td>°C</td>
<td>ISO 11357</td>
<td>165</td>
</tr>
<tr>
<td>Crystalization Temperature</td>
<td>°C</td>
<td>ISO 11357</td>
<td>145</td>
</tr>
<tr>
<td>Glass Transition Point</td>
<td>°C</td>
<td>ISO 11357</td>
<td>53</td>
</tr>
<tr>
<td>Vicat Softening Point</td>
<td>°C</td>
<td>ISO 306</td>
<td>152</td>
</tr>
</tbody>
</table>

## Mechanical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile stress at break</td>
<td>MPa</td>
<td>ISO 527</td>
<td>29</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>%</td>
<td>ISO 527</td>
<td>18</td>
</tr>
<tr>
<td>Young’s Modulus</td>
<td>GPa</td>
<td>ISO 527</td>
<td>3.5</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>GPa</td>
<td>ISO 178</td>
<td>3.2</td>
</tr>
<tr>
<td>Charpy Impact Strength</td>
<td>kJ/m²</td>
<td>ISO 179-1</td>
<td>10</td>
</tr>
<tr>
<td>Rockwell Hardness</td>
<td>HRM</td>
<td>ISO 2039-2</td>
<td>80</td>
</tr>
</tbody>
</table>

## Barrier Properties (cast film)

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen Transmission Rate</td>
<td>cm³.20µm/m².day.atm</td>
<td>ISO 14663-2 Annex C</td>
<td>1.9</td>
</tr>
</tbody>
</table>

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