Description

Benefits and Features
- Excellent toughness
- Self extinguishing (FAR 25B)
- Controlled flow matrix
- Curing temperature 150 - 180°C
- Maximum service temperature of 100°C (in wet conditions)

Resin Matrix Properties

Rheology

Gel Time
**HexPly® EH25**  
180°C curing epoxy matrix

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**Cured Matrix Properties** (cured at 180°C)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>75 MPa</td>
<td>ISO R527</td>
</tr>
<tr>
<td>Tensile modulus</td>
<td>3.7 GPa</td>
<td>ISO R527</td>
</tr>
<tr>
<td>Strain</td>
<td>2.4%</td>
<td>DMA</td>
</tr>
<tr>
<td>Glass transition temperature</td>
<td>180°C</td>
<td></td>
</tr>
<tr>
<td>Cured resin density</td>
<td>1.33 g/cm³</td>
<td></td>
</tr>
</tbody>
</table>

**Prepreg Curing Conditions**

The ideal cure cycle is 120 min at 180°C, at a pressure between 3 and 7 bar. Alternative cure cycles can be used:

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Time (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>14</td>
</tr>
<tr>
<td>160</td>
<td>8</td>
</tr>
<tr>
<td>170</td>
<td>4</td>
</tr>
<tr>
<td>180</td>
<td>2</td>
</tr>
</tbody>
</table>

Heat up rate 0.5 - 10°C/min

**Prepreg Storage Life**

- **Tack Life**  @ 23°C  30 days
- **Guaranteed Shelf Life**  @ -18°C  14 months

**Precautions for Use**

The usual precautions when handling uncured synthetic resins and fine fibrous materials should be observed, and a Safety Data Sheet is available for this product. The use of clean disposable inert gloves provides protection for the operator and avoids contamination of material and components.

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**For more information**

Hexcel is a leading worldwide supplier of composite materials to aerospace and industrial markets. Our comprehensive range includes:

- HexTow® carbon fibers
- HexForce® reinforcements
- HexPly® prepregs
- HexMC® molding compounds
- HexFlow® RTM resins
- Redux® adhesives
- HexTool® tooling materials
- HexWeb® honeycombs
- Acousti-Cap® sound attenuating honeycomb
- Engineered core
- Engineered products

For US quotes, orders and product information call toll-free 1-800-688-7734. For other worldwide sales office telephone numbers and a full address list, please go to:

http://www.hexcel.com/contact/salesoffice