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 and Gel Time diagrams]
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>ISO R527</td>
</tr>
<tr>
<td>Glass transition temperature</td>
<td>180°C</td>
<td>DMA</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 (maximum, from date of manufacture)

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.

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
- HiMax® multiaxial reinforcements
- HexPly® prepregs
- HexMC®-i molding compounds
- HexFlow® RTM resins
- HexBond™ adhesives
- HexTool® tooling materials
- HexWeb® honeycombs
- Acousti-Cap® sound attenuating honeycomb
- Engineered core
- Engineered products
- Polyspeed® laminates & pultruded profiles
- HexAM® additive manufacturing

For U.S. 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:

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