Snap Cure Epoxy Prepreg System

**RP570**

Snap Cure resin system 4 minute cure at 140°C

**Applications**
- Automotive
- Motorsport
- Marine
- Defence

**Processing Methods**
- Pressing

TDS0009
Description

RP570 Snap Cure prepreg system is a high performance formulated epoxy resin system with rapid Tg development enabling extremely short process times and excellent aesthetic finish. A press tool held at constant temperature of 140°C can produce a part every 4 minutes ready for painting. RP-570 can be supplied on a variety of woven fabrics.

Key Features & Benefits

• Cures and is demouldable in 4 minutes at 140°C
• Tg >140°C
• Excellent surface finish
• No thermal cycling of tools required
• Fast Tg development
• Can be preformed

Cure Cycle

Carefully place prepreg preforms in 140°C preheated hot tool. Close tool under 10 bar pressure and maintain 140°C temperature. Release pressure after 4 minutes and remove cured part.

Storage Conditions

• 6 months at -18°C
• 30 days at 23°C

Note:
Health and Safety: Refer to the full Material Safety Datasheet before use.
**Mechanical Properties**

Mechanical Properties are based on 140°C, at 10 bar pressure.

**Product: RP570C0462TR30SM421000**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fibre</td>
<td>Carbon</td>
</tr>
<tr>
<td>Fabric Weave Style</td>
<td>Twill 2/2</td>
</tr>
<tr>
<td>Fibre type</td>
<td>TR30s-3K</td>
</tr>
<tr>
<td>Fabric weight (g/m²)</td>
<td>245</td>
</tr>
<tr>
<td>Resin content (%)</td>
<td>42</td>
</tr>
<tr>
<td>Fibre volume fraction Vf (%)</td>
<td>48</td>
</tr>
<tr>
<td>DSC Tg (°C)</td>
<td>140</td>
</tr>
<tr>
<td>DMA onset Tg (°C)</td>
<td>131</td>
</tr>
<tr>
<td>DMA peak Tg (°C)</td>
<td>155</td>
</tr>
<tr>
<td>Tensile Strength (MPa)</td>
<td>ASTM D3039 840.4</td>
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<tr>
<td>Tensile Modulus (GPa)</td>
<td>ASTM D3039 63.1</td>
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<tr>
<td>Interlaminar shear strength (ILSS) (MPa)</td>
<td>EN ISO 14130 66.9</td>
</tr>
<tr>
<td>Flexural Strength (MPa)</td>
<td>EN ISO 178 948.2</td>
</tr>
</tbody>
</table>

**Viscosity**

All values are nominal.
Find out what PRF can do for your business

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