G-78 PREPREG SYSTEM

This system offers the same toughness and compressive performance as the G-28 system but with improved flow properties from the addition of a thermoplastic additive. The system is ideal for thin walled tube structures requiring high bending strength, such as fishing poles, features a flexible cure temperature from 250°F to 300°F and offers excellent tack and handleability.

High Heat Tolerance
High T_g allows for high temperature part demolding reducing cycle time. Material works well with high temperature paint curing cycles.

Easy Layup
Product allows complex part layup with minimal cuts or ridge lines. It maintains a comparable class A finish through post-cure, minimizing sanding and finishing times.

Readily Available
Product is in stock and ready to ship.

Flexible Cure Methods
Cutting methods include autoclave, oven cure, or press molding. Product can be cured with or without using a dwell.

Availability:

G-78 resin is available with numerous types of unidirectional carbon fibers and woven and glass fabrics with Fiber Areal Weight (FAW) ranging from 70 g/m² to 300 g/m² and Resin Content, (RC%) by weight percent, ranging from 24% to 44%.
**NEAT RESIN PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>METHOD</th>
<th>UNITS</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>ASTM D595</td>
<td>g/cm³</td>
<td>1.238</td>
</tr>
<tr>
<td>Tg (Dry)</td>
<td>DMA</td>
<td>°F (°C)</td>
<td>293 (145)</td>
</tr>
<tr>
<td>Gel Time</td>
<td>ASTM D3532</td>
<td>minutes</td>
<td>3.5</td>
</tr>
<tr>
<td>Linear CTE</td>
<td>TMA</td>
<td>(µm/(m*°C))</td>
<td>106.5</td>
</tr>
</tbody>
</table>

**RECOMMENDED CURE CYCLE (275°F)**

- Cure Temperature: 275°F
- Cure Time: 120 min
- Ramp Rate: 3°F/min
- Cure Pressure: 43 psi
- Cool Down Rate: 5°F/min

**RESIN VISCOSITY CURVE**

![Resin Viscosity Curve Graph]

**TIME TO 85% & 95% CURE BY CURE TEMPERATURE**

![Time to 85% & 95% Cure by Cure Temperature Graph]

**STORAGE LIFE**

- Fridge Life: 3 months @<40°F
- Freezer Life: 24 months @<10°F

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**For more information or purchasing inquiries:**

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