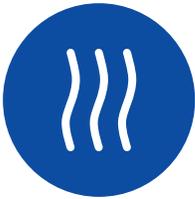




Toray Composite Materials America, Inc.

## 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:

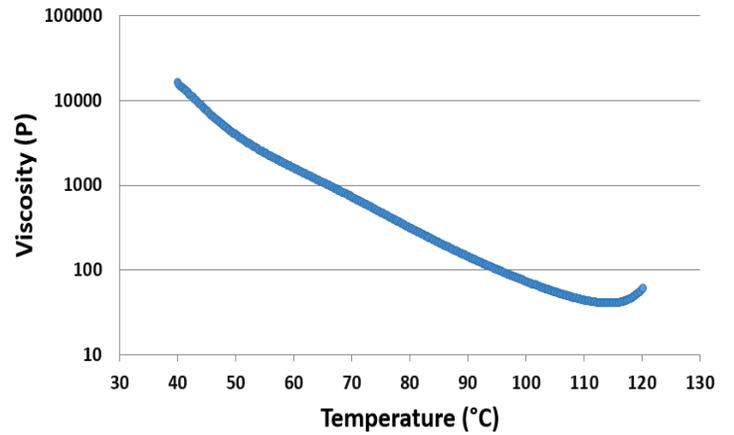
G-78 resin is available with numerous types of unidirectional carbon fibers and woven and glass fabrics with Fiber Areal Weight (FAW) ranging from 70 g/m<sup>2</sup> to 300 g/m<sup>2</sup> and Resin Content, (RC%) by weight percent, ranging from 24% to 44%.



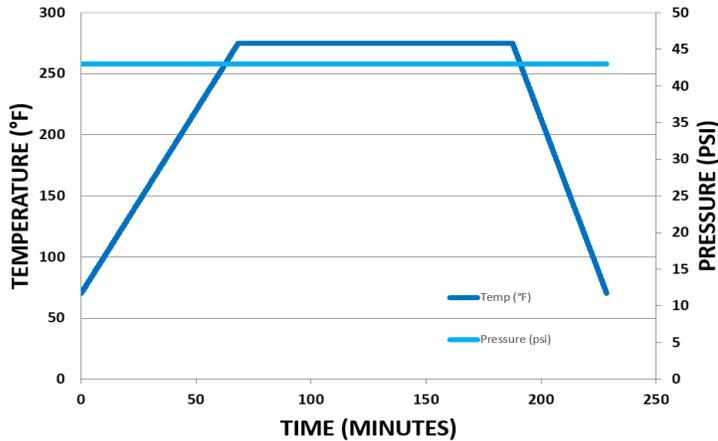
**NEAT RESIN PHYSICAL PROPERTIES**

PROPERTY	METHOD	UNITS	VALUE
Density	ASTM D595	g/cm <sup>3</sup>	1.238
Tg (Dry)	DMA	°F (°C)	293 (145)
Gel Time	ASTM D3532	minutes	3.5
Linear CTE	TMA	(µm/(m*°C))	106.5

**RESIN VISCOSITY CURVE**

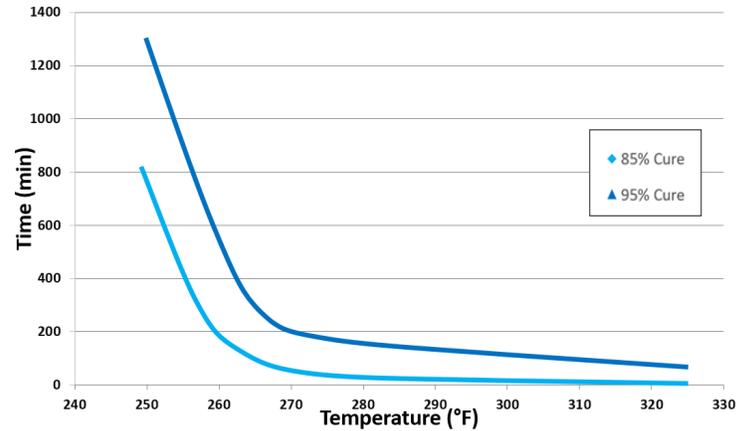


**RECOMMENDED CURE CYCLE (275°F)**



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

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



**STORAGE LIFE**

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

**For more information or purchasing inquiries:**  
 sales@toraycma.com | www.toraycma.com | 253-846-1777