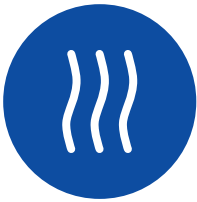




Toray Composite Materials America, Inc.

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:

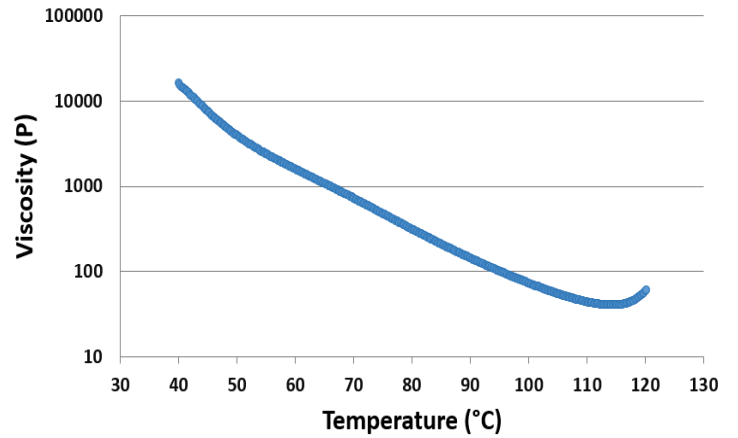
G-78 resin is available with numerous types of unidirectional carbon fibers and woven and glass fabrics with Fiber Areal Weight (FAW) ranging from 70 g/m² to 300 g/m² and Resin Content, (RC%) by weight percent, ranging from 24% to 44%.



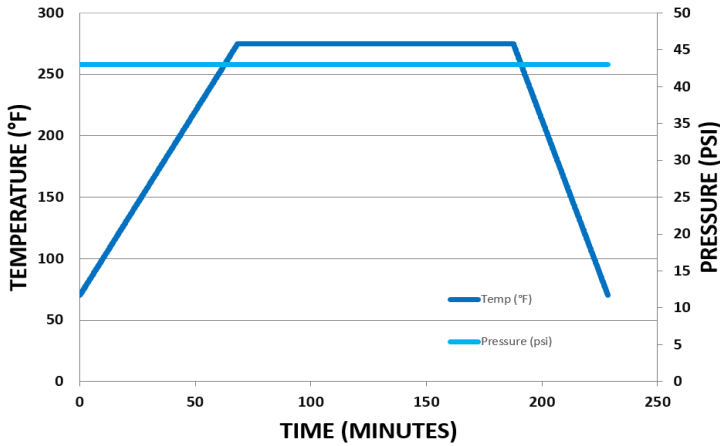
NEAT RESIN PHYSICAL PROPERTIES

PROPERTY	METHOD	UNITS	VALUE
Density	ASTM D595	g/cm ³	1.238
Tg (Dry)	DMA	°F (°C)	293 (145)
Gel Time	ASTM D3532	minutes	3.5
Linear CTE	TMA	($\mu\text{m}/(\text{m}\cdot^{\circ}\text{C})$)	106.5

RESIN VISCOSITY CURVE

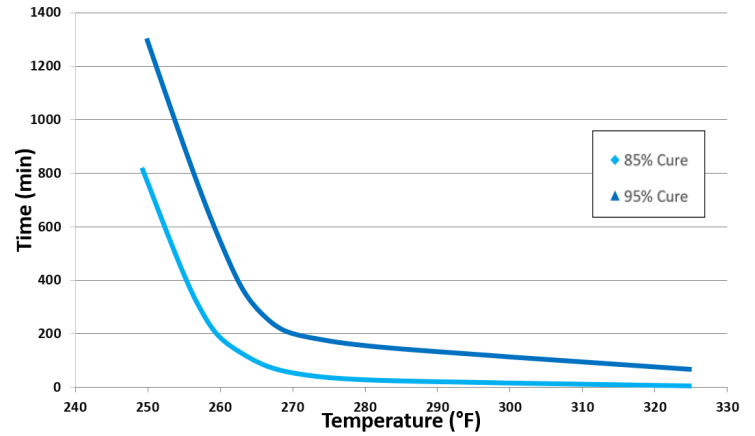


RECOMMENDED CURE CYCLE (275°F)



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:
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