

RM-2008 250°F Curing Epoxy Prepreg

FOR HIGH PERFORMANCE AEROSPACE APPLICATIONS



RM-2008 Modified Epoxy 250°F Cure Prepreg

Renegade Materials RM-2008 is a 250°F Curing Epoxy Prepreg System. A general purpose modified epoxy developed for ease of processing and excellent tack and drape characteristics. It is well-suited for 200°F dry or 160°F wet service environments. RM-2008 is processable by autoclave, vacuum bag/oven or compression molding. RM-2008 Epoxy prepregs are readily available in glass, quartz or carbon product forms, with small minimum order quantities and Renegade's fastest lead times in the industry.

- Straightforward 250°F Cure.
- Designed for ease of processing.
- Developed for optimized tack and handling.
- Delivers an excellent balance of properties for service up to 200°F dry or 160°F wet conditions.
- Available in woven, unidirectional and tape product forms using all fibers including carbon, quartz and glass.

RM-2008 Neat Resin Properties	
Cured Resin Density	1.21 g/cc
Resin Flex Strength	25 ksi
Resin Flex Modulus	526 Msi
Resin Flex Strain to Failure	5.0 %

RM-2008 Glass Transition Temperature Data

Condition	Tg G ' °
Dry – Std Cure	288°F/142°C
Wet* – Std Cure	257°F/126°C
Dry – 300F Post Cure	302°F/150°C

*Wet Conditioning – Water Immersion at 160°F for 14 days

Seller makes no warranty regarding the accuracy of this information. Buyers should make their own evaluation to determine suitability of any product for their own intended purposes.

Typical Mechanical Properties for RM-2008 E-Glass Fabric Prepreg

RM-2008-HTS40-7781 (FAW-300 gsm)			
Property	Test Method	Test Condition*	Test Result
0° Tensile Strength (ksi)	ASTM D 3039	RT Dry	77.8
		160°F Wet	46.0
0° Tensile Modulus (Msi)	ASTM D 3039	RT Dry	4.3
		160°F Wet	3.9
0° Compression Strength (ksi)	ASTM D 6641	RT Dry	80.0
		160°F Wet	51.4
0° Compression Modulus (Msi)	ASTM D 6641	RT Dry	3.8
		160°F Dry	3.5
Short Beam Shear Strength (ksi)	ASTM D 2344	Dry	9.6
		Wet	6.1

*Wet Conditioning – Water Immersion at 160°F for 14 days
All data normalized to 54% fiber volume, except SBS.

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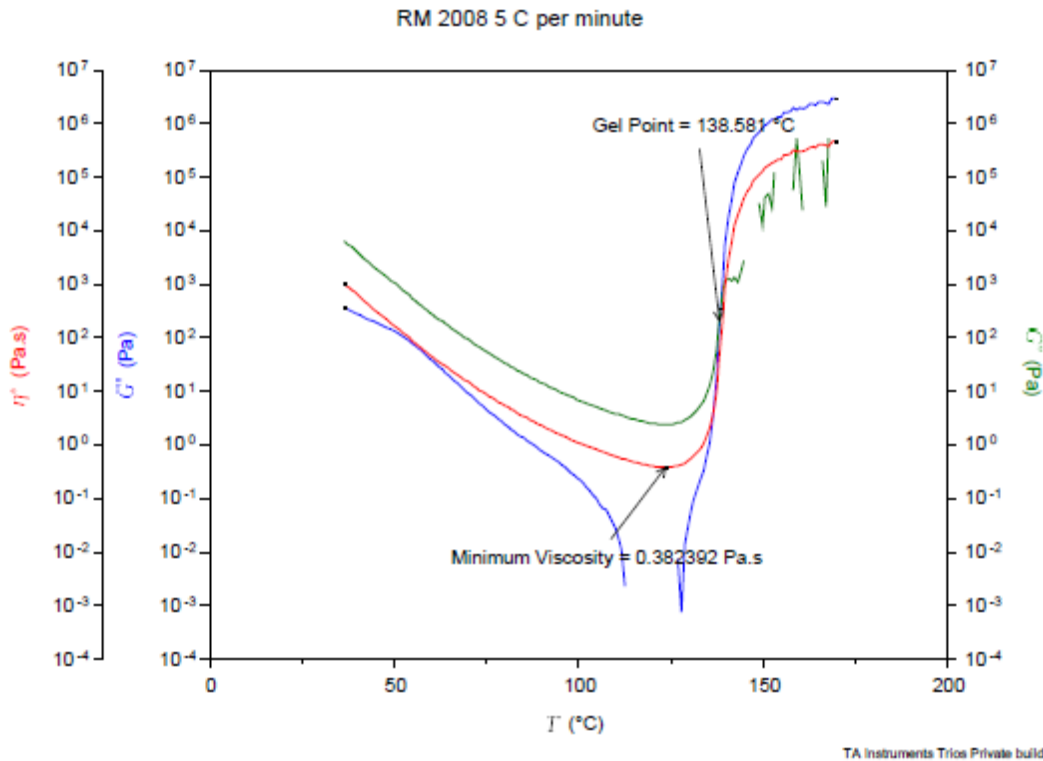
Typical Mechanical Properties for RM-2008 Std. Modulus Carbon Eight Harness Satin Prepreg

RM-2008-HTS40-3K-E13-8HS (FAW-370 gsm)			
Property	Test Method	Test Condition*	Test Result
0° Tensile Strength (ksi)	ASTM D 3039	RT Dry	148
		160°F Wet	156
0° Tensile Modulus (Msi)	ASTM D 3039	RT Dry	10.6
		160°F Wet	10.3
0° Compression Strength (ksi)	ASTM D 6641	RT Dry	103
		160°F Wet	67.5
0° Compression Modulus (Msi)	ASTM D 6641	RT Dry	9.3
		160°F Dry	9.8
Short Beam Shear Strength (ksi)	ASTM D 2344	Dry	9.8
		Wet	6.9

*Wet Conditioning – Water Immersion at 160°F for 14 days
All data was normalized to 58% fiber volume except SBS

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RM-2008 Typical Viscosity Profile



Renegade Recommended Autoclave Cure Cycle for RM-2008

- 85 psi, Vent vacuum at 30 psi
- Heat 4°F/min to 250°F, hold 90 minutes
- Cool 4°F/min to 150°F, then release pressure

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Renegade Materials Corporation is a global leader in manufacturing composite materials for aerospace applications. We deliver light-weight, highly-engineered prepregs, adhesives and hybrid composite systems to enable maximum fuel efficiency in commercial and military aircraft structures.

For pricing or additional information on Renegade products, please visit our website at www.renegadematerials.com



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