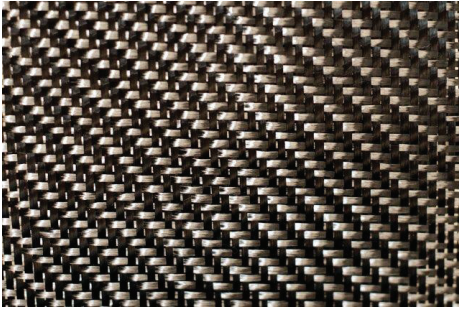


Carbon Fiber Room Temperature Storage Prepreg



Our Carbon Fiber Room Temperature Prepreg is a 5.9oz 2x2 twill weave fabric woven from 3K carbon fibers and impregnated with a thermosetting epoxy resin system. It is storable at room temperatures and does not require freezer storage. With the long out life of the resin matrix, the carbon fiber prepreg can be shipped and handled at room temperatures. It is ideal for use when a long shelf life is desired, high-temperature capabilities are not required and controlled resin content is wanted.

Physical Fabric Properties		Cure Cycles	
Weight	5.9 oz/yd ²	There are three optional cure cycles. All three will produce similar properties.	
Thickness	.012"		
Construction (W x F)	13x13 2x2 Twill Weave		
Fiber Type	3K Carbon Fiber Standard Modulus PAN, 33MSI	1.	<ul style="list-style-type: none"> 5°F-per-minute ramp up to 310°F (154°C) Hold for 1 hour <5°F-per-minute ramp down to at least 150°F (66°C) before removing from oven
Resin Matrix	Thermosetting Epoxy		
Resin Content	36% by Weight		
Technical Resin Properties		2.	<ul style="list-style-type: none"> 5°F-per-minute ramp up to 290°F (143°C) Hold for 2 hours <5°F-per-minute ramp down to at least 150°F (66°C) before removing from oven
Density	1.229 g/cc		
Tg (fromG" DMA curve)	270°F		
Tensile Strength	10.7 ksi		
Tensile Modulus	440 ksi		
Elongation @ Break	4.0%	3.	<ul style="list-style-type: none"> 5°F-per-minute ramp up to 270°F (132°C) Hold for 4 hours <5°F-per-minute ramp down to at least 150°F (66°C) before removing from oven
Tg after 24hr Water Boil	169°F		
Operation Temp.	60°F - 70°F below the resin Tg		

Shelf Life/Storage

The material should remain sealed when not in use and be stored indoors, out of the weather.

- The shelf life is 6 months from the date of manufacture when the maximum storage temperature shall not exceed 90°F (32°C).
- The shelf life is 12 months from the date of manufacture when the maximum storage temperature shall not exceed 75°F (24°C).
- The shelf life is 30 months from the date of manufacture when the maximum storage temperature shall not exceed 0°F (-18°C), with an additional 6 months at <75 °F (24°C).

All the information contained in these properties is believed to be reliable. It is intended for comparison purposes only as each manufactured lot will exhibit variations. The user should evaluate the suitability of each product for their application. We cannot anticipate the variations in all end use and we make no warranties and assume no liability in connection with the use of this information.