

Renegade Materials Corporation RM-5003 Cyanate Ester Prepreg 4581 Quartz Fabric

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Low dielectric and loss, high performance prepreg. 350°F Cure Developed with consistent handling and superior performance Designed for demanding electrical, radome and antennae applications Delivers superior performance with service up to 350°F with post cure Available in woven and unidirectional product forms using all fibers including carbon, quartz and S2 glass Nano-enhancement for tailored laminate properties and multi-functional performance Information provided by Renegade Materials Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Renegade-Materials-Corporation-RM-5003-Cyanate-Ester-Prepreg-4581-Quartz-Fabric.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	Resin

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	876 MPa	127000 psi	Prepreg, RT, Dry; ASTM D3039
Elongation at Break	4.5 %	4.5 %	Resin, RT, Dry
Tensile Modulus	26.2 GPa	3800 ksi	Prepreg, RT, Dry
Flexural Strength	138 MPa	20000 psi	Resin
	993 MPa	144000 psi	Prepreg, RT, Dry; ASTM D6272
Flexural Modulus	3.65 GPa	530 ksi	Resin
	26.9 GPa	3900 ksi	Prepreg, RT, Dry
Compressive Strength	621 MPa	90000 psi	0°, 90° Directions, RT, Dry; ASTM D6641
Shear Strength	82.7 MPa	12000 psi	Short Beam Shear, 0° Direction, RT, Dry; ASTM D2344

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	166 °C	331 °F	Prepreg, Measured from Storage Modulus, Wet
	190 °C	374 °F	Prepreg, Measured from Storage Modulus, Dry

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.95	2.95	
	@Frequency 1.00e+10	@Frequency 1.00e+10	

Electrical Properties	Hz Metric	Hz English	Comments
Dissipation Factor	0.0030 @Frequency 1.00e+10 Hz	0.0030 @Frequency 1.00e+10 Hz	

Descriptive Properties	Value	Comments
Vf, Fiber Volume Fraction	55%	RT, Dry

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