

Specialty Materials 5505 Boron Epoxy Prepreg Tape

Category : Polymer , Thermoset , Epoxy

Material Notes:

Specialty Materials' 5505 is a highly advanced prepreg tape, combining Specialty Materials' 4.0 or 5.6 mil boron filament with a tough, rigid, epoxy resin. Exhibiting exceptional performance at temperatures up to 375°F, 5505 tape is ideally suited for the fabrication of demanding composite structures. Information provided by Specialty Materials, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Specialty-Materials-5505-Boron-Epoxy-Prepreg-Tape.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1590 MPa	231000 psi	
Elongation at Yield	0.85 %	0.85 %	
Modulus of Elasticity	195 GPa	28300 ksi	
Flexural Yield Strength	2050 MPa	297000 psi	
Flexural Modulus	190 GPa	27600 ksi	
Compressive Yield Strength	2930 MPa	425000 psi	
Compressive Modulus	210 GPa	30500 ksi	
Poissons Ratio	0.21	0.21	
Shear Modulus	6.30 GPa	914 ksi	
Shear Strength	110 MPa	16000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 Åµm/m-Å°C	2.50 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Maximum Service Temperature, Air	191 Å°C	376 Å°F	

Processing Properties	Metric	English	Comments
Processing Temperature	177 Å°C	351 Å°F	

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