

Specialty Materials Hy-Bor 100 Boron/Graphite Hybrid Prepreg Tape

Category : Polymer , Thermoset , Epoxy

Material Notes:

Lower cost Hy-Bor version. Combining Specialty Materials' boron fiber with graphite prepreg, Hy-Bor® is a high-performance material with exceptional properties. Available with 4.0 and 5.6 mil boron fibers, Hy-Bor material can be manufactured to incorporate any commercially available graphite prepreg. By altering the spacing of the boron fiber in the prepreg, performance properties and material costs can be tailored to meet the needs of a variety of demanding applications. Information provided by Specialty Materials, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Specialty-Materials-Hy-Bor-100-BoronGraphite-Hybrid-Prepreg-Tape.php

Physical Properties	Metric	English	Comments
Density	1.82 g/cc	0.0658 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1620 MPa	235000 psi	
Elongation at Yield	0.80 %	0.80 %	
Modulus of Elasticity	207 GPa	30000 ksi	
Flexural Yield Strength	2275 MPa	330000 psi	
Flexural Modulus	207 GPa	30000 ksi	
Compressive Yield Strength	2344 MPa	340000 psi	
Compressive Modulus	193 GPa	28000 ksi	
Shear Strength	103 MPa	14900 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	177 Â°C	351 Â°F	

Processing Properties	Metric	English	Comments
Processing Temperature	121 Â°C	250 Â°F	

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