

Park Electrochemical Nelcote® E-722 Epoxy Prepreg, 285 Aramid Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-722 is a modified 350°F cure epoxy system with excellent processing characteristics for vacuum bag, press, and autoclave molding. Key Features and Benefits: Epoxy resin system optimized for use with woven aramid reinforcements Meets requirements of MIL-R-9300B, Type I Long out-time for easy processing Applications/Qualifications: Military Helicopters Engine Nacelles Work Platforms Doors Air Frames Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-722-Epoxy-Prepreg-285-Aramid-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 3.0 % @Temperature 135 °C	<= 3.0 % @Temperature 275 °F	8 min

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	517 MPa @Temperature 23.9 °C	75000 psi @Temperature 75.0 °F	0° Direction, Dry; ASTM D638 Type 1
Tensile Modulus	31.7 GPa @Temperature 23.9 °C	4600 ksi @Temperature 75.0 °F	0° Direction, Dry; ASTM D638 Type 1
Flexural Strength	427 MPa @Temperature 23.9 °C	62000 psi @Temperature 75.0 °F	Dry; ASTM D790
Flexural Modulus	28.3 GPa @Temperature 23.9 °C	4100 ksi @Temperature 75.0 °F	Dry; ASTM D790
Compressive Strength	172 MPa @Temperature 23.9 °C	25000 psi @Temperature 75.0 °F	Dry; ASTM D695
Compressive Modulus	31.0 GPa @Temperature 23.9 °C	4500 ksi @Temperature 75.0 °F	Dry; ASTM D695
Shear Strength	29.0 MPa @Temperature 23.9 °C	4200 psi @Temperature 75.0 °F	Short-Beam, Dry; ASTM D2344

Processing Properties	Metric	English	Comments
Gel Time	1.00 - 6.00 min	1.00 - 6.00 min	
Shelf Life	12.0 Month @Temperature -17.8 °C	12.0 Month @Temperature 0.000 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Prepreg Resin Content (%)		52-58	
Resin Flow (%)		15-35	325°F, 15psi

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