

Park Electrochemical Nelcote® E-718 Epoxy Prepreg, G30-700 Uni-Tape Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-718 is a modified epoxy resin system. E-718 is designed to provide excellent mechanical properties at low cure pressures. Key Features and Benefits: Good low pressure consolidation Excellent handling characteristics and out-time High tack, high flow prepreg 250°F cure epoxy system Good mechanical properties at high service temperatures Applications/Qualifications: Industrial Applications Recreational Applications Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-718-Epoxy-Prepreg-G30-700-Uni-Tape-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 1.0 % @Temperature 135 °C	<= 1.0 % @Temperature 275 °F	
Thickness	152 microns	6.00 mil	Cured Ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2350 MPa @Temperature 23.9 °C	341000 psi @Temperature 75.0 °F	0° Direction, Dry; ASTM D3039
Tensile Modulus	139 GPa @Temperature 23.9 °C	20100 ksi @Temperature 75.0 °F	0° Direction, Dry; ASTM D3039
Compressive Strength	1540 MPa @Temperature 23.9 °C	223000 psi @Temperature 75.0 °F	Dry; ASTM D695
Compressive Modulus	129 GPa @Temperature 23.9 °C	18700 ksi @Temperature 75.0 °F	Dry; ASTM D695
Shear Strength	94.5 MPa @Temperature 23.9 °C	13700 psi @Temperature 75.0 °F	Short-Beam, Dry; ASTM D2344

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	165 °C	329 °F	Dry, by DMA

Processing Properties	Metric	English	Comments
Gel Time	2.00 - 8.00 min	2.00 - 8.00 min	
	12.0 Month	12.0 Month	

Shelf Life	Metric	English	Comments
Processing Properties	@ Temperature -17.8 °C	@ Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m ²)	150	
Prepreg Resin Content (%)	32-38	
Resin Flow (%)	8-22	225°F, 50psi

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