

Park Electrochemical Nelcote® E-765 Epoxy Prepreg, 120 E-Glass Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-765 is a tough 250°F cure prepreg system designed to replace 350°F cure systems in aircraft structural applications. FAA-approved Design Allowable Databases are available upon request. Key Features and Benefits: Designed to replace first generation 350°F (176°C) cure systems. Wide cure temperature process window of 250°F to 350°F Exhibits very low void content, i.e.,

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-765-Epoxy-Prepreg-120-E-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 1.5 %	<= 1.5 %	
Thickness	127 microns	5.00 mil	cured, per ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	365 MPa @Temperature 21.1 °C	53000 psi @Temperature 70.0 °F	0° Direction, Dry; Vacuum/Oven Cured; ASTM D3039-95
Tensile Modulus	16.5 GPa @Temperature 21.1 °C	2400 ksi @Temperature 70.0 °F	0° Direction, Dry; Vacuum/Oven Cured; ASTM D3039-95
Compressive Strength	434 MPa @Temperature 21.1 °C	63000 psi @Temperature 70.0 °F	Dry; Vacuum/Oven Cured; SACMA 1-94
Compressive Modulus	17.9 GPa @Temperature 21.1 °C	2600 ksi @Temperature 70.0 °F	Dry; Vacuum/Oven Cured; SACMA 1-94
Shear Strength	64.1 MPa @Temperature 21.1 °C	9300 psi @Temperature 70.0 °F	Short-Beam, Dry; Vacuum/Oven Cured; ASTM D2344

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

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.5 @Frequency 9.375e+9 Hz	4.5 @Frequency 9.375e+9 Hz	
Dissipation Factor	0.020 @Frequency 9.375e+9 Hz	0.020 @Frequency 9.375e+9 Hz	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Gel Time	2.00 - 6.00 min	2.00 - 6.00 min	
	@Temperature 135 °C	@Temperature 275 °F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m²)	107	
Prepreg Resin Content (%)	53	
Resin Flow (%)	26	275°F, 15psi
Tack	Light-Medium	

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