

Park Electrochemical Nelcote® E-765 Epoxy Prepreg, T700 12K BW 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-T700-12K-BW-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 1.5 %	<= 1.5 %	
Thickness	584 microns	23.0 mil	cured, per ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	786 MPa @Temperature 21.1 °C	114000 psi @Temperature 70.0 °F	0° Direction, Dry; Vacuum/Oven Cured; ASTM D3039-95
Tensile Modulus	71.0 GPa @Temperature 21.1 °C	10300 ksi @Temperature 70.0 °F	0° Direction, Dry; Vacuum/Oven Cured; ASTM D3039-95
Compressive Strength	565 MPa @Temperature 21.1 °C	82000 psi @Temperature 70.0 °F	Dry; Vacuum/Oven Cured; SACMA 1-94
Compressive Modulus	57.2 GPa @Temperature 21.1 °C	8300 ksi @Temperature 70.0 °F	Dry; Vacuum/Oven Cured; SACMA 1-94
Shear Strength	53.1 MPa @Temperature 21.1 °C	7700 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

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

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m ²)	635	
Prepreg Resin Content (%)	32-38	
Resin Flow (%)	12-24	275°F, 15psi
Tack	Light-Medium	

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