

Park Electrochemical Nelcote® E-765 Epoxy Prepreg, 34-700 12K 2x2 Twill 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°FExhibits 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-34-700-12K-2x2-Twill-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 1.5 %	<= 1.5 %	
Thickness	559 microns	22.0 mil	cured, per ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	676 MPa	98000 psi	0° Direction, Dry; Autoclave Cured; ASTM D3039-95
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Tensile Modulus	71.0 GPa	10300 ksi	0° Direction, Dry; Autoclave Cured; ASTM D3039-95
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Compressive Strength	696 MPa	101000 psi	Dry; Autoclave Cured; SACMA 1-94
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Compressive Modulus	71.7 GPa	10400 ksi	Dry; Autoclave Cured; SACMA 1-94
	@Temperature 21.1 °C	@Temperature 70.0 °F	

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	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
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Fabric Area Weight (g/m²) Descriptive Properties		670 Value	Comments
Prepreg Resin Content (%)		37-43	
Resin Flow (%)		12-24	275°F, 15psi
Tack		Light-Medium	

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