

Park Electrochemical Nelcote® E-766B Epoxy Prepreg, 285 Kevlar® Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-766B is a low tack, self adhesive epoxy resin system designed for honeycomb applications. E-766B displays excellent peel properties. Key Features and Benefits: Self adhesive resin system for sandwich panel applications Flame retardant and self-extinguishing Low tack and long out-times for ease of processing Applications/Qualifications: Sandwich panels / structures Aircraft Interiors Mass Transit Interiors Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-766B-Epoxy-Prepreg-285-Kevlar-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 1.0 % @Temperature 163 °C	<= 1.0 % @Temperature 325 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	483 MPa @Temperature 23.9 °C	70000 psi @Temperature 75.0 °F	ASTM D3039
Tensile Modulus	31.0 GPa @Temperature 23.9 °C	4500 ksi @Temperature 75.0 °F	Dry; ASTM D3039
Flexural Strength	531 MPa @Temperature 23.9 °C	77000 psi @Temperature 75.0 °F	Dry; ASTM D790
Flexural Modulus	26.2 GPa @Temperature 23.9 °C	3800 ksi @Temperature 75.0 °F	Dry; ASTM D790
Compressive Strength	172 MPa @Temperature 23.9 °C	25000 psi @Temperature 75.0 °F	Dry; SACMA 1-94
Compressive Modulus	31.0 GPa @Temperature 23.9 °C	4500 ksi @Temperature 75.0 °F	Dry; SACMA 1-94
Shear Strength	37.9 MPa @Temperature 23.9 °C	5500 psi @Temperature 75.0 °F	Short-Beam, Dry; ASTM D2344

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	93.0 °C	199 °F	Dry; DMA

Processing Properties	Metric	English	Comments
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Processing Properties	12.0 Month Metric	12.0 Month English	Comments
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m ²)	169	
Prepreg Resin Content (%)	50-55	
Resin Flow (%)	20-35	275°F, 15psi

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