

Park Electrochemical Nelcote® E-766B Epoxy Prepreg, 120 E-Glass 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 applicationsFlame retardant and self-extinguishingLow tack and long out-times for ease of processingApplications/Qualifications:Sandwich panels / structuresAircraft InteriorsMass Transit InteriorsInformation provided by Park Electrochemical Corp.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-766B-Epoxy-Prepreg-120-E-Glass-Reinforced.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	379 MPa	55000 psi	ASTM D638
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Tensile Modulus	17.9 GPa	2600 ksi	Dry; ASTM D638
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Strength	552 MPa	80000 psi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Modulus	17.9 GPa	2600 ksi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compressive Strength	400 MPa	58000 psi	Dry; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compressive Modulus	18.6 GPa	2700 ksi	Dry; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Shear Strength	56.5 MPa	8200 psi	Short-Beam, Dry; ASTM D2344
	@Temperature 23.9 °C	@Temperature 75.0 °F	

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/m²)	107	
Prepreg Resin Content (%)	50-60	
Resin Flow (%)	20-30	275°F, 15psi

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