

Park Electrochemical Nelcote® E-761 Epoxy Prepreg, Spectra® 951 - PT Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-761 is a versatile self-adhesive epoxy matrix for use in aerospace and commercial application where ease of processing and cost are key considerations. Key Features and Benefits: Controlled flow for ease of processing Self adhesive for honeycomb or foam sandwich laminates without the use of film adhesive Flexible cure temperature 180°F to 250°F Good electrical properties Flame and fire retardant per FAR 25.853 Wet service temperatures up to 160°F Applications/Qualifications: Radomes Aircraft Interiors Secondary Aircraft Structures Sandwich Panels MRI Resonators Widely specified on commercial and military aircraft programs Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-761-Epoxy-Prepreg-Spectra-951-PT-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 1.0 % @Temperature 135 °C	<= 1.0 % @Temperature 275 °F	8 min
Thickness	254 microns	10.0 mil	Per Ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	448 MPa @Temperature 21.1 °C	65000 psi @Temperature 70.0 °F	0° Direction, Dry; ASTM D638
Flexural Strength	96.5 MPa @Temperature 21.1 °C	14000 psi @Temperature 70.0 °F	Dry; ASTM D790
Compressive Strength	34.5 MPa @Temperature 21.1 °C	5000 psi @Temperature 70.0 °F	Dry; ASTM D695
Compressive Modulus	26.9 GPa @Temperature 21.1 °C	3900 ksi @Temperature 70.0 °F	Dry; ASTM D695

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	115 °C	239 °F	Dry; DMA

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.6 - 2.8 @Frequency 5.00e+9 - 1.80e+10 Hz	2.6 - 2.8 @Frequency 5.00e+9 - 1.80e+10 Hz	

Electrical Properties	0.0040 Metric	0.0040 English	Comments
Dielectric Factor	@Frequency 5.00e+9 - 1.80e+10 Hz	@Frequency 5.00e+9 - 1.80e+10 Hz	

Processing Properties	Metric	English	Comments
Gel Time	8.20 min	8.20 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m²)	98.3	
Prepreg Resin Content (%)	50	
Resin Flow (%)	6	275°F, 50psi

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