

Park Electrochemical Nelcote® E-761 Epoxy Prepreg, 6781 S2-Glass

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-6781-S2-Glass.php

Physical Properties	Metric	English	Comments
Volatiles	<= 1.5 % @Temperature 135 °C	<= 1.5 % @Temperature 275 °F	8 min
Thickness	254 microns	10.0 mil	Per Ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	593 MPa @Temperature 21.1 °C	86000 psi @Temperature 70.0 °F	0° Direction, Wet; ASTM D638
	607 MPa @Temperature 21.1 °C	88000 psi @Temperature 70.0 °F	0° Direction, Dry; ASTM D638
Flexural Strength	814 MPa @Temperature 21.1 °C	118000 psi @Temperature 70.0 °F	Dry; ASTM D790
Compressive Strength	455 MPa @Temperature 21.1 °C	66000 psi @Temperature 70.0 °F	Wet; ASTM D695
	510 MPa @Temperature 21.1 °C	74000 psi @Temperature 70.0 °F	Dry; ASTM D695
Shear Strength	59.3 MPa @Temperature 21.1 °C	8600 psi @Temperature 70.0 °F	Short-Beam, Dry; ASTM D2344

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

Processing Properties	Metric	English	Comments
Gel Time	4.00 min	4.00 min	
Shelf Life	12.0 Month @Temperature -17.8 °C	12.0 Month @Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m ²)	304.1	
Prepreg Resin Content (%)	32	
Resin Flow (%)	14	275°F, 50psi

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