

Park Electrochemical Nelcote® E-761 Epoxy Prepreg, 3K 8HS Carbon 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-3K-8HS-Carbon-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 2.0 % @Temperature 135 °C	<= 2.0 % @Temperature 275 °F	8 min
Thickness	356 microns	14.0 mil	Per Ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	586 MPa @Temperature 21.1 °C	85000 psi @Temperature 70.0 °F	0° Direction, Dry; ASTM D638
Tensile Modulus	55.2 GPa @Temperature 21.1 °C	8000 ksi @Temperature 70.0 °F	0° Direction, Dry; ASTM D638
Flexural Strength	42.7 MPa @Temperature 21.1 °C	6200 psi @Temperature 70.0 °F	Dry; ASTM D790
Flexural Modulus	54.5 GPa @Temperature 21.1 °C	7900 ksi @Temperature 70.0 °F	Dry; ASTM D790
Compressive Strength	510 MPa @Temperature 21.1 °C	74000 psi @Temperature 70.0 °F	Dry; ASTM D695
Compressive Modulus	53.1 GPa @Temperature 21.1 °C	7700 ksi @Temperature 70.0 °F	Dry; ASTM D695
Shear Strength	54.5 MPa @Temperature 21.1 °C	7900 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	6.25 min	6.25 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)	369.9	
Prepreg Resin Content (%)	42	
Resin Flow (%)	12	275°F, 50psi

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China