

Park Electrochemical Nelcote® E-763 Epoxy Prepreg, 3K 2x2 Twill Carbon Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-763 is a modified epoxy system with a nominal 250°F cure temperature. E-763 provides a transparent resin surface on the finished part which gives finished part surfaces a cosmetic attractive finish. Key Features and Benefits: Good low pressure consolidation, Excellent handling characteristics and out-time, Clear surface finish for excellent cosmetic appearance on finished parts, 250°F cure epoxy system. Applications/Qualifications: Industrial Applications, Recreational Applications. Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-763-Epoxy-Prepreg-3K-2x2-Twill-Carbon-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 1.5 % @Temperature 135 °C	<= 1.5 % @Temperature 275 °F	8 min

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	752 MPa @Temperature 23.9 °C	109000 psi @Temperature 75.0 °F	0° Direction, Dry; Oven Cure 275°F, 90 min; ASTM D638
Tensile Modulus	62.7 GPa @Temperature 23.9 °C	9100 ksi @Temperature 75.0 °F	0° Direction, Dry; Oven Cure 275°F, 90 min; ASTM D3039
Flexural Strength	924 MPa @Temperature 23.9 °C	134000 psi @Temperature 75.0 °F	Dry; Oven Cure 275°F, 90 min; ASTM D790
Flexural Modulus	46.9 GPa @Temperature 23.9 °C	6800 ksi @Temperature 75.0 °F	Dry; Oven Cure 275°F, 90 min; ASTM D790
Compressive Strength	572 MPa @Temperature 23.9 °C	83000 psi @Temperature 75.0 °F	Dry; Oven Cure 275°F, 90 min; ASTM D695
Compressive Modulus	66.9 GPa @Temperature 23.9 °C	9700 ksi @Temperature 75.0 °F	Dry; Oven Cure 275°F, 90 min; ASTM D695
Shear Strength	52.4 MPa @Temperature 23.9 °C	7600 psi @Temperature 75.0 °F	Short-Beam, Dry; Oven Cure 275°F, 90 min; ASTM D2344

Processing Properties	Metric	English	Comments
Gel Time	2.00 - 6.00 min	2.00 - 6.00 min	

Processing Properties	6.00 Month Metric	6.00 Month English	Comments
Shelf Life	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Prepreg Resin Content (%)	38-44	
Resin Flow (%)	5-15	275°F, 15psi

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