

Park Electrochemical Nelcote® E-763 Epoxy Prepreg, 3K PW 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-PW-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	676 MPa @Temperature 23.9 °C	98000 psi @Temperature 75.0 °F	0° Direction, Dry; Oven Cure 250°F, 90 min; ASTM D638
Tensile Modulus	62.1 GPa @Temperature 23.9 °C	9000 ksi @Temperature 75.0 °F	0° Direction, Dry; Oven Cure 250°F, 90 min; ASTM D3039
Flexural Strength	924 MPa @Temperature 23.9 °C	134000 psi @Temperature 75.0 °F	Dry; Oven Cure 250°F, 90 min; ASTM D790
Flexural Modulus	60.7 GPa @Temperature 23.9 °C	8800 ksi @Temperature 75.0 °F	Dry; Oven Cure 250°F, 90 min; ASTM D790
Compressive Strength	579 MPa @Temperature 23.9 °C	84000 psi @Temperature 75.0 °F	Dry; Oven Cure 250°F, 90 min; ASTM D695
Compressive Modulus	61.4 GPa @Temperature 23.9 °C	8900 ksi @Temperature 75.0 °F	Dry; Oven Cure 250°F, 90 min; ASTM D695
Shear Strength	63.4 MPa @Temperature 23.9 °C	9200 psi @Temperature 75.0 °F	Short-Beam, Dry; Oven Cure 250°F, 90 min; ASTM D2344

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

Shelf Life	Metric	English	Comments
Processing Properties	@ 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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