

Park Electrochemical Nelcote® E-763 Epoxy Prepreg, 7781 E-Glass 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-7781-E-Glass-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	427 MPa @Temperature 23.9 °C	62000 psi @Temperature 75.0 °F	0° Direction, Dry; Oven Cure 250°F, 90 min; ASTM D638
Tensile Modulus	25.5 GPa @Temperature 23.9 °C	3700 ksi @Temperature 75.0 °F	0° Direction, Dry; Oven Cure 250°F, 90 min; ASTM D3039
Flexural Strength	593 MPa @Temperature 71.1 °C	86000 psi @Temperature 160 °F	Dry; Oven Cure 250°F, 90 min; ASTM D790
	662 MPa @Temperature 23.9 °C	96000 psi @Temperature 75.0 °F	Dry; Oven Cure 250°F, 90 min; ASTM D790
Flexural Modulus	23.4 GPa @Temperature 23.9 °C	3400 ksi @Temperature 75.0 °F	Dry; Oven Cure 250°F, 90 min; ASTM D790
	23.4 GPa @Temperature 71.1 °C	3400 ksi @Temperature 160 °F	Dry; Oven Cure 250°F, 90 min; ASTM D790
Compressive Strength	414 MPa @Temperature 71.1 °C	60000 psi @Temperature 160 °F	Dry; Oven Cure 250°F, 90 min; ASTM D695
	517 MPa @Temperature 23.9 °C	75000 psi @Temperature 75.0 °F	Dry; Oven Cure 250°F, 90 min; ASTM D695
Compressive Modulus	23.4 GPa	3400 ksi	Dry; Oven Cure 250°F, 90 min; ASTM D695

Mechanical Properties	@Temperature 71.1 °C Metric	@Temperature 160 °F English	Comments
	25.5 GPa	3700 ksi	Dry; Oven Cure 250°F, 90 min; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Shear Strength	50.3 MPa	7300 psi	Short-Beam, Dry; Oven Cure 250°F, 90 min; ASTM D2344
	@Temperature 71.1 °C	@Temperature 160 °F	
	62.7 MPa	9100 psi	Short-Beam, Dry; Oven Cure 250°F, 90 min; ASTM D2344
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Processing Properties	Metric	English	Comments
Gel Time	2.00 - 6.00 min	2.00 - 6.00 min	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Prepreg Resin Content (%)	36-44	
Resin Flow (%)	7-21	275°F, 15psi

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