

Park Electrochemical Nelcote® E-720 Epoxy Prepreg, 581 Quartz Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-720 is a modified epoxy resin system designed to retain excellent mechanical properties after extended exposure to high temperature. E-720 has a proven history in many demanding aerospace applications. Key Features and Benefits: Excellent retention of mechanical properties after long-term high temperature exposure Long out-time for easy processing Good electrical properties Applications/Qualifications: Secondary Aircraft Structures Radomes Nacelles Inlet Ducts Fairings Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-720-Epoxy-Prepreg-581-Quartz-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 2.0 %	<= 2.0 %	
	@Temperature 135 °C	@Temperature 275 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	414 MPa	60000 psi	0° Direction, Dry; ASTM D638
	@Temperature 216 °C	@Temperature 420 °F	
	621 MPa	90000 psi	0° Direction, Dry; ASTM D638
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Strength	276 MPa	40000 psi	Dry; ASTM D790
	@Temperature 216 °C	@Temperature 420 °F	
	621 MPa	90000 psi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Modulus	13.8 GPa	2000 ksi	Dry; ASTM D790
	@Temperature 216 °C	@Temperature 420 °F	
	23.4 GPa	3400 ksi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compressive Strength	207 MPa	30000 psi	Dry; ASTM D695
	@Temperature 216 °C	@Temperature 420 °F	
	345 MPa	50000 psi	Dry; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties mp, Tg	Metric	English	Comments standard cure
	230 °C	446 °F	Laminate; post cure

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.3 - 3.6	3.3 - 3.6	
Dissipation Factor	0.012 - 0.014	0.012 - 0.014	

Processing Properties	Metric	English	Comments
Gel Time	1.00 - 2.00 min	1.00 - 2.00 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/m²)	292	
Prepreg Resin Content (%)	33-37	
Resin Flow (%)	10-24	325°F, 50psi

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