

Park Electrochemical Nelcote® E-720 Epoxy Prepreg, 7781 E-Glass 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-7781-E-Glass-Reinforced.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	80	80	
Tensile Strength, Yield	310 MPa	45000 psi	0° Direction, Dry; ASTM D638
	@Temperature 216 °C	@Temperature 420 °F	
	310 MPa	45000 psi	0° Direction, Dry; ASTM D638
	@Temperature 260 °C	@Temperature 500 °F	
	345 MPa	50000 psi	0° Direction, Dry; ASTM D638
	@Temperature 177 °C	@Temperature 350 °F	
	414 MPa	60000 psi	0° Direction, Dry; ASTM D638
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Strength	207 MPa	30000 psi	Dry; ASTM D790
	@Temperature 260 °C	@Temperature 500 °F	
	345 MPa	50000 psi	Dry; ASTM D790
	@Temperature 216 °C	@Temperature 420 °F	
	414 MPa	60000 psi	Dry; ASTM D790
	@Temperature 177 °C	@Temperature 350 °F	
	586 MPa	85000 psi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 260 °C	@Temperature 500 °F	
	19.3 GPa	2800 ksi	Dry; ASTM D790
	@Temperature 216 °C	@Temperature 420 °F	
	20.0 GPa	2900 ksi	Dry; ASTM D790
	@Temperature 177 °C	@Temperature 350 °F	
	23.4 GPa	3400 ksi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compressive Strength	310 MPa	45000 psi	Dry; ASTM D695
	@Temperature 260 °C	@Temperature 500 °F	
	359 MPa	52000 psi	Dry; ASTM D695
	@Temperature 177 °C	@Temperature 350 °F	
	359 MPa	52000 psi	Dry; ASTM D695
	@Temperature 216 °C	@Temperature 420 °F	
	414 MPa	60000 psi	Dry; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Shear Strength	33.1 MPa	4800 psi	Short-Beam, Dry; ASTM D2344
	@Temperature 177 °C	@Temperature 350 °F	
	46.2 MPa	6700 psi	Short-Beam, Dry; ASTM D2344
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	180 °C	356 °F	Laminate; standard cure
	230 °C	446 °F	Laminate; post cure

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.2	4.2	
Dissipation Factor	0.015	0.015	

Processing Properties	Metric	English	Comments
Gel Time	1.00 - 2.00 min	1.00 - 2.00 min	
	12.0 Month	12.0 Month	

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

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m²)	300	
Prepreg Resin Content (%)	33-37	
Resin Flow (%)	10-24	325°F, 50psi

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