

Park Electrochemical Nelcote® E-722 Epoxy Prepreg, 285 Kevlar® Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-722 is a modified 350°F cure epoxy system with excellent processing characteristics for vacuum bag, press, and autoclave molding. Key Features and Benefits: Epoxy resin system optimized for use with woven aramid reinforcements Meets requirements of MIL-R-9300B, Type 1 Long out-time for easy processing Applications/Qualifications: Military Helicopters Engine Nacelles Work Platforms Doors Air Frames Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-722-Epoxy-Prepreg-285-Kevlar-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 3.0 %	<= 3.0 %	8 min
	@Temperature 135 °C	@Temperature 275 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	524 MPa	76000 psi	0° Direction, Wet (2hr water boil immersion); ASTM D638 Type 1
	@Temperature 87.8 °C	@Temperature 190 °F	
	545 MPa	79000 psi	0° Direction, Dry; ASTM D638 Type 1
	@Temperature 93.3 °C	@Temperature 200 °F	
Tensile Modulus	558 MPa	81000 psi	0° Direction, Dry; ASTM D638 Type 1
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	558 MPa	81000 psi	0° Direction, Dry; ASTM D638 Type 1
	@Temperature 87.8 °C	@Temperature 190 °F	
Flexural Strength	26.2 GPa	3800 ksi	0° Direction, Dry; ASTM D638 Type 1
	@Temperature 93.3 °C	@Temperature 200 °F	
	26.9 GPa	3900 ksi	0° Direction, Wet (2hr water boil immersion); ASTM D638 Type 1
	@Temperature 87.8 °C	@Temperature 190 °F	
Flexural Modulus	27.6 GPa	4000 ksi	0° Direction, Dry; ASTM D638 Type 1
	@Temperature 87.8 °C	@Temperature 190 °F	
	30.3 GPa	4400 ksi	0° Direction, Dry; ASTM D638 Type 1
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Mechanical Properties	276 MPa Metric	40000 psi English	Comments
	@Temperature 93.3 °C	@Temperature 200 °F	Dry; ASTM D790
	296 MPa	43000 psi	Dry; ASTM D790
	@Temperature 87.8 °C	@Temperature 190 °F	
	345 MPa	50000 psi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Modulus	22.8 GPa	3300 ksi	Dry; ASTM D790
	@Temperature 93.3 °C	@Temperature 200 °F	
	23.4 GPa	3400 ksi	Dry; ASTM D790
	@Temperature 87.8 °C	@Temperature 190 °F	
	24.8 GPa	3600 ksi	Wet (2hr water boil immersion); ASTM D790
	@Temperature 87.8 °C	@Temperature 190 °F	
	26.2 GPa	3800 ksi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compressive Strength	124 MPa	18000 psi	Wet (2hr water boil immersion); ASTM D695
	@Temperature 87.8 °C	@Temperature 190 °F	
	152 MPa	22000 psi	Dry; ASTM D695
	@Temperature 87.8 °C	@Temperature 190 °F	
	152 MPa	22000 psi	Dry; ASTM D695
	@Temperature 93.3 °C	@Temperature 200 °F	
	200 MPa	29000 psi	Dry; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compressive Modulus	20.7 GPa	3000 ksi	Wet (2hr water boil immersion); ASTM D695
	@Temperature 87.8 °C	@Temperature 190 °F	
	21.4 GPa	3100 ksi	Dry; ASTM D695
	@Temperature 87.8 °C	@Temperature 190 °F	
	22.1 GPa	3200 ksi	Dry; ASTM D695
	@Temperature 93.3 °C	@Temperature 200 °F	
	22.8 GPa	3300 ksi	Dry; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	29.6 MPa	4300 psi	Short-Beam, Wet (2hr water boil

Shear Strength Mechanical Properties	Metric @Temperature 87.8 °C	English @Temperature 190 °F	Immersion): ASTM D2344 Comments
	31.7 MPa	4600 psi	Short-Beam, Dry; ASTM D2344
	@Temperature 93.3 °C	@Temperature 200 °F	
	37.9 MPa	5500 psi	Short-Beam, Dry; ASTM D2344
	@Temperature 87.8 °C	@Temperature 190 °F	
	38.6 MPa	5600 psi	Short-Beam, Dry; ASTM D2344
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Processing Properties	Metric	English	Comments
Gel Time	1.00 - 4.00 min	1.00 - 4.00 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Prepreg Resin Content (%)	52-58	
Resin Flow (%)	15-35	325°F, 15psi

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