

Park Electrochemical Nelcote® E-718 Epoxy Prepreg, T-700 24K Uni-Tape Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-718 is a modified epoxy resin system. E-718 is designed to provide excellent mechanical properties at low cure pressures. Key Features and Benefits: Good low pressure consolidation Excellent handling characteristics and out-time High tack, high flow prepreg 250°F cure epoxy system Good mechanical properties at high service temperatures 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-718-Epoxy-Prepreg-T-700-24K-Uni-Tape-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 1.0 %	<= 1.0 %	
	@Temperature 135 °C	@Temperature 275 °F	
Thickness	305 microns	12.0 mil	Cured Ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2320 MPa	337000 psi	0° Direction, Dry; ASTM D3039
	@Temperature 82.2 °C	@Temperature 180 °F	
	2340 MPa	340000 psi	0° Direction, Dry; ASTM D3039
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Tensile Modulus	143 GPa	20800 ksi	0° Direction, Dry; ASTM D3039
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	149 GPa	21600 ksi	0° Direction, Dry; ASTM D3039
	@Temperature 82.2 °C	@Temperature 180 °F	
Flexural Strength	1390 MPa	201000 psi	Dry; ASTM D790
	@Temperature 82.2 °C	@Temperature 180 °F	
	1610 MPa	233000 psi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Modulus	108 GPa	15600 ksi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	110 GPa	15900 ksi	Dry; ASTM D790
	@Temperature 82.2 °C	@Temperature 180 °F	

Mechanical Properties	1220 MPa Metric	177000 psi English	Comments
	@Temperature 82.2 °C	@Temperature 180 °F	
	1530 MPa	222000 psi	Dry; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compressive Modulus	124 GPa	18000 ksi	Dry; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	124 GPa	18000 ksi	Dry; ASTM D695
	@Temperature 82.2 °C	@Temperature 180 °F	
Shear Strength	66.9 MPa	9700 psi	Short-Beam, Dry; ASTM D2344
	@Temperature 82.2 °C	@Temperature 180 °F	
	88.9 MPa	12900 psi	Short-Beam, Dry; ASTM D2344
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	165 °C	329 °F	Dry, by DMA

Processing Properties	Metric	English	Comments
Gel Time	2.00 - 8.00 min	2.00 - 8.00 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m ²)	340	
Prepreg Resin Content (%)	32-38	
Resin Flow (%)	6-20	225°F, 50psi

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China