

## Park Electrochemical Nelcote® E-718 Epoxy Prepreg, 7781 E-Glass 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-7781-E-Glass-Reinforced.php](http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-718-Epoxy-Prepreg-7781-E-Glass-Reinforced.php)

Physical Properties	Metric	English	Comments
Volatiles	<= 1.0 %	<= 1.0 %	
	@Temperature 135 °C	@Temperature 275 °F	
Thickness	229 microns	9.00 mil	Cured Ply

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	738 MPa	107000 psi	0° Direction, Dry; ASTM D3039
	@Temperature 82.2 °C	@Temperature 180 °F	
	800 MPa	116000 psi	0° Direction, Dry; ASTM D3039
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Tensile Modulus	40.0 GPa	5800 ksi	0° Direction, Dry; ASTM D3039
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	44.8 GPa	6500 ksi	0° Direction, Dry; ASTM D3039
	@Temperature 82.2 °C	@Temperature 180 °F	
Flexural Strength	1170 MPa	170000 psi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Flexural Modulus	44.8 GPa	6500 ksi	Dry; ASTM D790
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compressive Strength	820 MPa	119000 psi	Dry; ASTM D695
	@Temperature 82.2 °C	@Temperature 180 °F	
	924 MPa	134000 psi	Dry; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	43.4 GPa	6300 ksi	

Compressive Modulus Mechanical Properties	Metric @ Temperature 23.9 °C	English @ Temperature 75.0 °F	Dry: ASTM D695 Comments
Shear Strength	93.8 MPa @Temperature 23.9 °C	13600 psi @Temperature 75.0 °F	Short-Beam, Dry; ASTM D2344

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 @Temperature -17.8 °C	12.0 Month @Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m <sup>2</sup> )	300	
Prepreg Resin Content (%)	30-36	
Resin Flow (%)	6-20	225°F, 50psi

## Contact Songhan Plastic Technology Co.,Ltd.

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