

## Park Electrochemical Nelcote® P-600 Polyester Prepreg, 7781 E-Glass Reinforced

Category : Polymer , Thermoset , Polyester, TS

### Material Notes:

Nelcote® P-600 is a general purpose 190°F curing polyester system widely accepted as a cost-effective alternative to wet lay-up processing  
**Key Features and Benefits:** Meets MIL-R-7575 requirements 160°F max service temperature Good electrical properties Low cure temp (190°F) for easy processing  
**Applications/Qualifications:** Aircraft window frames Industrial Parts Automotive applications  
 Information provided by Park Electrochemical Corp.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Park-Electrochemical-Nelcote-P-600-Polyester-Prepreg-7781-E-Glass-Reinforced.php](http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-P-600-Polyester-Prepreg-7781-E-Glass-Reinforced.php)

Physical Properties	Metric	English	Comments
Volatiles	<= 2.0 % @Temperature 135 °C	<= 2.0 % @Temperature 275 °F	8 min
Water Absorption	0.38 %	0.38 %	ASTM D570 proc. 7.5

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	497 MPa @Temperature 23.9 °C	72100 psi @Temperature 75.0 °F	0° Direction, Wet (2hr water boil); ASTM D638 Type 1
	514 MPa @Temperature 23.9 °C	74500 psi @Temperature 75.0 °F	0° Direction, Dry; ASTM D638 Type 1
Tensile Modulus	23.4 GPa @Temperature 23.9 °C	3400 ksi @Temperature 75.0 °F	0° Direction, Wet (2hr water boil); ASTM D638 Type 1
	26.2 GPa @Temperature 23.9 °C	3800 ksi @Temperature 75.0 °F	0° Direction, Dry; ASTM D638 Type 1
Flexural Strength	596 MPa @Temperature 23.9 °C	86400 psi @Temperature 75.0 °F	Wet (2hr water boil); ASTM D790
	766.0 MPa @Temperature 23.9 °C	111100 psi @Temperature 75.0 °F	Dry; ASTM D790
Flexural Modulus	19.3 GPa @Temperature 23.9 °C	2800 ksi @Temperature 75.0 °F	Wet (2hr water boil); ASTM D790
	23.4 GPa @Temperature 23.9 °C	3400 ksi @Temperature 75.0 °F	Dry; ASTM D790

Mechanical Properties	Metric	English	Comments
	450 MPa	65200 psi	Wet (100°C water boil); ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	527 MPa	76400 psi	Dry; ASTM D695
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.3	4.3	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
Dissipation Factor	0.016	0.016	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	

Processing Properties	Metric	English	Comments
Shelf Life	3.00 Month	3.00 Month	
	@Temperature 4.44 °C	@Temperature 40.0 °F	
	6.00 Month	6.00 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m <sup>2</sup> )	300	
Prepreg Resin Content (%)	35-45	
Resin Flow (%)	8-13	325°F, 15psi

## Contact Songhan Plastic Technology Co.,Ltd.

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