

Park Electrochemical Nelcote® P-670F Polyester Prepreg, 7781 E-Glass Reinforced

Category : Polymer , Thermoset , Polyester, TS

Material Notes:

Nelcote® P-670F is a versatile, non-styrenated/low VOC polyester resin. P670F is used in a wide variety of applications including tooling and aircraft structures. Key Features and Benefits: Non-styrenated / low VOC resin system Meets requirements of MIL-R-7575C, grade B Self-extinguishing formulation Applications/Qualifications: Tooling Aircraft Structures Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-P-670F-Polyester-Prepreg-7781-E-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 2.0 % @Temperature 104 °C	<= 2.0 % @Temperature 220 °F	8 min

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	75	75	
Tensile Strength, Yield	469 MPa @Temperature 23.9 °C	68000 psi @Temperature 75.0 °F	0° Direction, Dry; ASTM D638 Type 1
Tensile Modulus	26.2 GPa @Temperature 23.9 °C	3800 ksi @Temperature 75.0 °F	0° Direction, Dry; ASTM D638 Type 1
Flexural Strength	655 MPa @Temperature 23.9 °C	95000 psi @Temperature 75.0 °F	Dry; ASTM D790
Flexural Modulus	25.5 GPa @Temperature 23.9 °C	3700 ksi @Temperature 75.0 °F	Dry; ASTM D790
Compressive Strength	379 MPa @Temperature 23.9 °C	55000 psi @Temperature 75.0 °F	Dry; ASTM D695
Shear Strength	55.2 MPa @Temperature 23.9 °C	8000 psi @Temperature 75.0 °F	Short Beam; Dry; ASTM D695

Processing Properties	Metric	English	Comments
Gel Time	0.500 - 1.50 min	0.500 - 1.50 min	
Shelf Life	3.00 Month @Temperature 4.44 °C	3.00 Month @Temperature 40.0 °F	

Processing Properties	6.00 Month Metric	6.00 Month English	Comments
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fabric Area Weight (g/m ²)	300	
Flammability	Self-Extinguishing	
Prepreg Resin Content (%)	35-41	
Resin Flow (%)	3-15	275°F, 15psi

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