

Park Electrochemical Nelcote® V-303 Polyimide Prepreg, 7781 E-Glass Reinforced

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Nelcote® V-303 is non-MDA condensation polyimide prepreg with a service temperature of 600°F. Key Features and Benefits: 600°F maximum service temperature. Good electrical properties for RF applications. Applications/Qualifications: Radomes, Bearings, Insulation. Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-V-303-Polyimide-Prepreg-7781-E-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in ³	Laminate
Volatiles	15 - 25 % @Temperature 288 °C	15 - 25 % @Temperature 550 °F	10 min

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	421 MPa @Temperature 23.9 °C	61000 psi @Temperature 75.0 °F	0° Direction, Dry; ASTM D638 Type 1
Tensile Modulus	25.5 GPa @Temperature 23.9 °C	3700 ksi @Temperature 75.0 °F	0° Direction, Dry; ASTM D638 Type 1
Flexural Strength	496 MPa @Temperature 23.9 °C	72000 psi @Temperature 75.0 °F	Dry; ASTM D790
Flexural Modulus	23.4 GPa @Temperature 23.9 °C	3400 ksi @Temperature 75.0 °F	Dry; ASTM D790
Compressive Strength	407 MPa @Temperature 23.9 °C	59000 psi @Temperature 75.0 °F	Dry; ASTM D695
Compressive Modulus	28.3 GPa @Temperature 23.9 °C	4100 ksi @Temperature 75.0 °F	Dry; ASTM D695
Shear Strength	28.3 MPa @Temperature 23.9 °C	4100 psi @Temperature 75.0 °F	Short Beam; Dry; ASTM D790

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	422 °C	792 °F	DMA

Processing Properties	Metric	English	Comments
Gel Time	1.40 - 1.60 min	1.40 - 1.60 min	
	@Temperature 177 °C	@Temperature 350 °F	
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 ²)	300	
Prepreg Resin Content (%)	29-35	
Resin Flow (%)	25-35	350°F, 50psi

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