

Park Electrochemical Nelcote® E-752 Epoxy Prepreg, 6K 5HS T300 Reinforced

Category : Polymer , Thermoset , Epoxy

Material Notes:

Nelcote® E-752 is a toughened, 185°C cure epoxy system designed for demanding structural applications up to 130°C. E-752 offers a good balance of toughness, high service temperature and good moisture resistance, as well as excellent tack and drape. Formulated for both oven and autoclave cure, E-752 provides for easy processing with oven cure, without sacrificing mechanical properties. Key Features and Benefits: Specifically designed to allow both oven cure and autoclave cure Allows oven curing without sacrificing mechanical properties Service temperatures up to 130°C Controlled flow for ease of processing Flexible cure temperature 132°C to 185°C Good mechanical properties can be achieved through oven curing at 132°C, followed by post-cure at 185°C Self-adhesive grade for sandwich panel applications Applications/Qualifications: Primary and Secondary Aircraft Structures Ducting Fairings Nacelles Information provided by Park Electrochemical Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-752-Epoxy-Prepreg-6K-5HS-T300-Reinforced.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	820 MPa	119000 psi	0° Direction; 270°F Oven Cure, 350°F Postcure; ASTM D3039
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	820 MPa	119000 psi	
Tensile Modulus	@Temperature 121 °C	@Temperature 250 °F	0° Direction; 270°F Oven Cure, 350°F Postcure; ASTM D3039
	827 MPa	120000 psi	
	@Temperature 121 °C	@Temperature 250 °F	
Compressive Strength	65.5 GPa	9500 ksi	0° Direction; 270°F Oven Cure, 350°F Postcure; ASTM D3039
	@Temperature 121 °C	@Temperature 250 °F	
	65.5 GPa	9500 ksi	
Compressive Strength	66.2 GPa	9600 ksi	0° Direction; 270°F Oven Cure, 350°F Postcure; ASTM D3039
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	319 MPa	46300 psi	
Compressive Strength	@Temperature 23.9 °C	@Temperature 75.0 °F	Open-Hole, Dry; 270°F Oven Cure, 350°F Postcure; ASTM D6484
	607 MPa	88000 psi	
	@Temperature 121 °C	@Temperature 250 °F	
Compressive Strength	717 MPa	104000 psi	Wet; 270°F Oven Cure, 350°F Postcure; SACMA 1R-94
	@Temperature 121 °C	@Temperature 250 °F	
	827 MPa	120000 psi	
Compressive Strength	827 MPa	120000 psi	Dry; 270°F Oven Cure, 350°F Postcure; SACMA 1R-94
	@Temperature 121 °C	@Temperature 250 °F	
	827 MPa	120000 psi	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.9 °C	@Temperature 75.0 °F	Dry; 270°F Oven Cure, 350°F Postcure; SACMA 1R-94
Compressive Modulus	44.8 GPa	6500 ksi	Open-Hole, Dry; 270°F Oven Cure, 350°F Postcure; ASTM D6484
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	60.0 GPa	8700 ksi	Wet; 270°F Oven Cure, 350°F Postcure; SACMA 1R-94
	@Temperature 121 °C	@Temperature 250 °F	
	61.4 GPa	8900 ksi	Dry; 270°F Oven Cure, 350°F Postcure; SACMA 1R-94
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	61.4 GPa	8900 ksi	Dry; 270°F Oven Cure, 350°F Postcure; SACMA 1R-94
	@Temperature 121 °C	@Temperature 250 °F	
Shear Modulus	4.69 GPa	680 ksi	In-Plane, Wet; 270°F Oven Cure, 350°F Postcure; ASTM D3518
	@Temperature 121 °C	@Temperature 250 °F	
	4.76 GPa	690 ksi	In-Plane, Dry; 270°F Oven Cure, 350°F Postcure; ASTM D3518
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	4.83 GPa	700 ksi	In-Plane, Dry; 270°F Oven Cure, 350°F Postcure; ASTM D3518
	@Temperature 121 °C	@Temperature 250 °F	
Shear Strength	79.3 MPa	11500 psi	In-Plane, Wet; 270°F Oven Cure, 350°F Postcure; ASTM D3518
	@Temperature 121 °C	@Temperature 250 °F	
	91.7 MPa	13300 psi	In-Plane, Dry; 270°F Oven Cure, 350°F Postcure; ASTM D3518
	@Temperature 121 °C	@Temperature 250 °F	
	97.2 MPa	14100 psi	In-Plane, Dry; 270°F Oven Cure, 350°F Postcure; ASTM D3518
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Processing Properties	Metric	English	Comments
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)	378	270°F Oven Cure, 350°F Postcure

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