

Park Electrochemical Nelcote® E-752 Epoxy Prepreg, 3K PW G30-500 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-3K-PW-G30-500-Reinforced.php

Physical Properties	Metric	English	Comments
Volatiles	<= 1.0 % @Temperature 135 °C	<= 1.0 % @Temperature 275 °F	8 min

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2.41 MPa	350 psi	Mean Value, Flatwise, Core Failure, 39-42% RC; ASTM C297

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	170 °C	338 °F	Wet; DMA
	190 °C	374 °F	Dry; DMA

Processing Properties	Metric	English	Comments
Gel Time	5.00 - 12.0 min	5.00 - 12.0 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Climbing Drum Peel (in-lb/3in)	4.6	ASTM D1781; Mean Value, 39-42% RC
Fabric Area Weight (g/m²)	193	
Prepreg Resin Content (%)	32-40	

Descriptive Properties	Value	Comments
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