

## Park Electrochemical Nelcote® E-765 Epoxy Prepreg, 6K 4HS IM7 Reinforced

Category : Polymer , Thermoset , Epoxy

### Material Notes:

Nelcote® E-765 is a tough 250°F cure prepreg system designed to replace 350°F cure systems in aircraft structural applications. FAA-approved Design Allowable Databases are available upon request. Key Features and Benefits: Designed to replace first generation 350°F (176°C) cure systems. Wide cure temperature process window of 250°F to 350°F Exhibits very low void content, i.e.,

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Park-Electrochemical-Nelcote-E-765-Epoxy-Prepreg-6K-4HS-IM7-Reinforced.php](http://www.lookpolymers.com/polymer_Park-Electrochemical-Nelcote-E-765-Epoxy-Prepreg-6K-4HS-IM7-Reinforced.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	903 MPa	131000 psi	0° Direction, Dry; Autoclave Cured; ASTM D3039-95
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Tensile Modulus	75.8 GPa	11000 ksi	0° Direction, Dry; Autoclave Cured; ASTM D3039-95
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Compressive Strength	531 MPa	77000 psi	Wet; Autoclave Cured; SACMA 1-94
	@Temperature 82.2 °C	@Temperature 180 °F	
	607 MPa	88000 psi	Dry; Autoclave Cured; SACMA 1-94
	@Temperature 82.2 °C	@Temperature 180 °F	
	758 MPa	110000 psi	Dry; Autoclave Cured; SACMA 1-94
	@Temperature 21.1 °C	@Temperature 70.0 °F	
Compressive Modulus	62.1 GPa	9000 ksi	Dry; Autoclave Cured; SACMA 1-94
	@Temperature 82.2 °C	@Temperature 180 °F	
	65.5 GPa	9500 ksi	Dry; Autoclave Cured; SACMA 1-94
	@Temperature 21.1 °C	@Temperature 70.0 °F	
	76.5 GPa	11100 ksi	Wet; Autoclave Cured; SACMA 1-94
	@Temperature 82.2 °C	@Temperature 180 °F	
Shear Strength	47.6 MPa	6900 psi	Beam, V-Notched; Wet; Autoclave Cured; ASTM D5379-93
	@Temperature 82.2 °C	@Temperature 180 °F	
	50.3 MPa	7300 psi	Short-Beam, Wet; Autoclave Cured; ASTM D2344
	@Temperature 82.2 °C	@Temperature 180 °F	
	52.4 MPa	7600 psi	Beam, V-Notched; Dry; Autoclave Cured; ASTM D5379-93
	@Temperature 82.2 °C	@Temperature 180 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 21.1 °C	@Temperature 70.0 °F	Beam, V-Notched; Dry; Autoclave Cured; ASTM D5379-93
	62.1 MPa	9000 psi	
	@Temperature 82.2 °C	@Temperature 180 °F	Short-Beam, Dry; Autoclave Cured; ASTM D2344
	64.1 MPa	9300 psi	
	@Temperature 21.1 °C	@Temperature 70.0 °F	Short-Beam, Dry; Autoclave Cured; ASTM D2344
	71.0 MPa	10300 psi	

Processing Properties	Metric	English	Comments
Shelf Life	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> )	203	

## Contact Songhan Plastic Technology Co.,Ltd.

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