

Hexcel® HexPly® F185 Epoxy Resin, K285 Kevlar Fabric

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

Hexcel designation: 285-38"-F185; Fiber: Kev. 49 1140 Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F185-Epoxy-Resin-K285-Kevlar-Fabric.php

Physical Properties	Metric	English	Comments
Volatiles	0.40 - 1.2 %	0.40 - 1.2 %	Prepreg

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	419 MPa	60800 psi	Fill TS
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Tensile Strength, Yield	507 MPa	73500 psi	Warp TS
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Tensile Modulus	24.0 GPa	3480 ksi	Warp tensile modulus
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Tensile Modulus	26.3 GPa	3810 ksi	Fill tensile modulus
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Yield Strength	155 MPa	22500 psi	Warp compression
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Yield Strength	164 MPa	23800 psi	Fill compression
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Modulus	13.8 GPa	2000 ksi	Fill compression
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Modulus	19.3 GPa	2800 ksi	Warp compression
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Shear Strength	36.0 MPa	5220 psi	Warp short beam shear
	@Temperature 24.0 °C	@Temperature 75.2 °F	

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.028	Laminate
Fiber Volume (%)	42	Laminate

Descriptive Properties	Value	Comments
Wet Resin Content (%)	52-58	Prepreg

Contact Songhan Plastic Technology Co.,Ltd.

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