

Hexcel® HexPly® F522 Epoxy Resin, K285 Kevlar® Fabric

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

Hexcel designation: K285-38"-F522; Kev. 49 1140 Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F522-Epoxy-Resin-K285-Kevlar-Fabric.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	517 MPa	75000 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Tensile Modulus	29.0 GPa	4210 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Flexural Yield Strength	110 MPa	16000 psi	Long Beam, Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	414 MPa	60000 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Yield Strength	117 MPa	17000 psi	Wet (14 ± 1/2 days of water immersion at 160 ± 5°F (71 ± 3°C))
	@Temperature 71.0 °C	@Temperature 160 °F	
	179 MPa	26000 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Modulus	25.5 GPa	3700 ksi	Wet (14 ± 1/2 days of water immersion at 160 ± 5°F (71 ± 3°C))
	@Temperature 71.0 °C	@Temperature 160 °F	
	30.3 GPa	4390 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	

Descriptive Properties	Value	Comments
Dry Resin Content (%)	49-55	Prepreg
Fiber Volume (%)	0.025	Laminate
Flow (%)	20-32	
Wet Resin Content (%)	46	Laminate

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