

Hexcel® HexPly® F185 Epoxy Resin, 1581 Glass Fabric

Category : Polymer , Thermoset , Epoxy , Epoxy/Glass SMC

Material Notes:

Hexcel designation: 1581-38"-F185; Fiber: 150-1/2 Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F185-Epoxy-Resin-1581-Glass-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	2.779 MPa	403.1 psi	Flatwise TS
	@Temperature 82.0 °C	@Temperature 180 °F	
	5.537 MPa	803.1 psi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	Flatwise TS
	8.432 MPa	1223 psi	Flatwise TS
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	379 MPa	55000 psi	Warp TS
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Yield Strength	345 MPa	50000 psi	Warp compression
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Shear Strength	28.427 MPa	4123.0 psi	Lap shear
	@Temperature 82.0 °C	@Temperature 180 °F	
	31.778 MPa	4609.0 psi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	Lap shear
	37.08 MPa	5378 psi	Lap shear
	@Temperature -54.0 °C	@Temperature -65.2 °F	
Peel Strength	8.24 kN/m	47.0 pli	Metal-to-metal
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	11.1 kN/m	63.3 pli	Metal-to-metal
	@Temperature 82.0 °C	@Temperature 180 °F	
	12.8 kN/m	73.0 pli	Metal-to-metal

Mechanical Properties	@Temperature 24.0 °C Metric	@Temperature 75.2 °F English	Comments
Descriptive Properties		Value	Comments
Cured Thickness per Ply (cm)		0.023	Laminate
Fiber Volume (%)		51.3	Laminate
Flow (%)		24-34	
Wet Resin Content (%)		47-53	Prepreg

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