

Hexcel® HexPly® F185 Epoxy Resin, 7781 Glass Fabric

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

Material Notes:

Hexcel designation: 7781-38"-F185; Fiber: 75-1/0 Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F185-Epoxy-Resin-7781-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	440 MPa	63800 psi	Warp TS
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Yield Strength	324 MPa	47000 psi	Warp compression
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Shear Strength	20.278 MPa	2941.1 psi	Lap shear
	@Temperature 82.0 °C	@Temperature 180 °F	
	31.757 MPa	4606.0 psi	Lap shear
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	32.737 MPa	4748.1 psi	Lap shear
	@Temperature -54.0 °C	@Temperature -65.2 °F	
Peel Strength	5.65 kN/m	32.2 pli	Metal-to-metal
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	13.4 kN/m	76.5 pli	Metal-to-metal
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	13.4 kN/m	76.5 pli	Metal-to-metal
	@Temperature 82.0 °C	@Temperature 180 °F	

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.021	Laminate
Fiber Volume (%)	56	Laminate
Flow (%)	24-34	
Wet Resin Content (%)	47-53	Prepreg

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

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