

Hexcel® HexPly® F185 Epoxy Resin, 120 Glass Fabric

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

Material Notes:

Hexcel designation: 120-38"-F185; Fiber: 450-1/2
Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F185-Epoxy-Resin-120-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	308 MPa	44700 psi	Warp TS
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Yield Strength	283 MPa	41000 psi	Warp compression
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Shear Strength	26.676 MPa	3869.0 psi	Lap shear
	@Temperature 82.0 °C	@Temperature 180 °F	
	34.246 MPa	4967.0 psi	Lap shear
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	35.432 MPa	5139.0 psi	Lap shear
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Peel Strength	6.95 kN/m	39.7 pli	Metal-to-metal
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	8.72 kN/m	49.8 pli	Metal-to-metal
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	10.4 kN/m	59.3 pli	Metal-to-metal
	@Temperature 82.0 °C	@Temperature 180 °F	

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.012	Laminate
Fiber Volume (%)	36.1	Laminate
Flow (%)	24-34	
Wet Resin Content (%)	57-63	Prepreg

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

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China