

Hexcel® HexPly® M35-4 80-180°C Curing Epoxy Matrix, M35-4/40%/G1089/1000 Fabric

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

Fiber: T800H 6K 2x2 Twill, 200 g/m² Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-M35-4-80-180C-Curing-Epoxy-Matrix-M35-440G10891000-Fabric.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	Nominal Laminate Density

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	1017 MPa @Temperature 23.0 °C	147500 psi @Temperature 73.4 °F	prEN2561 Type B
Tensile Modulus	86.0 GPa @Temperature 23.0 °C	12500 ksi @Temperature 73.4 °F	prEN2561 Type B
Compressive Yield Strength	904 MPa @Temperature 23.0 °C	131000 psi @Temperature 73.4 °F	prEN2580 Type A
Compressive Modulus	74.0 GPa	10700 ksi	23; prEN2580 Type A
Shear Modulus	5.20 GPa @Temperature 23.0 °C	754 ksi @Temperature 73.4 °F	In-Plane; prEN6032
Shear Strength	44.0 MPa @Temperature 140 °C	6380 psi @Temperature 284 °F	ILSS; prEN2563
	52.0 MPa @Temperature 120 °C	7540 psi @Temperature 248 °F	ILSS; prEN2563
	61.0 MPa @Temperature 100 °C	8850 psi @Temperature 212 °F	ILSS; prEN2563
	67.0 MPa @Temperature 80.0 °C	9720 psi @Temperature 176 °F	ILSS; prEN2563
	71.0 MPa @Temperature 23.0 °C	10300 psi @Temperature 73.4 °F	ILSS; prEN2563
	124 MPa	18000 psi	In-Plane; prEN6032

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Processing Properties	Metric	English	Comments
Shelf Life	>= 12.0 Month @Temperature -18.0 °C	>= 12.0 Month @Temperature -0.400 °F	
Descriptive Properties		Value	Comments
Cured Thickness per Ply (cm)		0.0217	
Fiber Volume (%)		50.9	

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