

Hexcel® HexPly® M48 180°C/356°F Curing Epoxy Matrix, M48/42%/48370/1000

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

Fiber: HR 12K, 2x2 Twill, 370 g/m2 Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-M48-180C356F-Curing-Epoxy-Matrix-M4842483701000.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	Resin
	1.53 g/cc	0.0553 lb/in ³	Nominal Laminate
	1.78 g/cc	0.0643 lb/in ³	Fibre

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	1022 MPa @Temperature 23.0 °C	148200 psi @Temperature 73.4 °F	prEN2561 Type B
Tensile Modulus	58.0 GPa @Temperature 23.0 °C	8410 ksi @Temperature 73.4 °F	prEN2561 Type B
Compressive Yield Strength	200 MPa @Temperature 23.0 °C	29000 psi @Temperature 73.4 °F	Compression After Impact @ 6.7 J/mm; AITM 1.0010
	765 MPa @Temperature 23.0 °C	111000 psi @Temperature 73.4 °F	prEN2580 Type B
Compressive Modulus	50.0 GPa @Temperature 23.0 °C	7250 ksi @Temperature 73.4 °F	prEN2580 Type B
Shear Modulus	4.60 GPa @Temperature 23.0 °C	667 ksi @Temperature 73.4 °F	In-Plane; prEN6032
Shear Strength	48.4 MPa @Temperature 23.0 °C	7020 psi @Temperature 73.4 °F	ILSS; prEN2563
	77.0 MPa @Temperature 23.0 °C	11200 psi @Temperature 73.4 °F	In-Plane; prEN6032

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	201 °C	394 °F	Onset

Thermal Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -18.0 °C	@Temperature -0.400 °F	

Descriptive Properties		Value	Comments
Cured Thickness per Ply (cm)		0.0417	
Fiber Volume (%)		49.8	
Tack Life (days)		15	

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