

Hexcel® HexPly® M48 180°C/356°F Curing Epoxy Matrix, M48/42%/G1094/1000

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

Fiber: T800H 6K, 5H Satin weave, 290 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-M4842G10941000.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	Resin
	1.54 g/cc	0.0556 lb/in ³	Nominal Laminate
	1.81 g/cc	0.0654 lb/in ³	Fibre

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	991 MPa @Temperature 23.0 °C	144000 psi @Temperature 73.4 °F	prEN2561 Type B
Tensile Modulus	67.0 GPa @Temperature 23.0 °C	9720 ksi @Temperature 73.4 °F	prEN2561 Type B
Compressive Yield Strength	282 MPa @Temperature 23.0 °C	40900 psi @Temperature 73.4 °F	Compression After Impact @ 6.7 J/mm; AITM 1.0010
	650 MPa @Temperature 23.0 °C	94300 psi @Temperature 73.4 °F	prEN2580 Type B
Compressive Modulus	59.0 GPa @Temperature 23.0 °C	8560 ksi @Temperature 73.4 °F	prEN2580 Type B
Shear Modulus	4.70 GPa @Temperature 23.0 °C	682 ksi @Temperature 73.4 °F	In-Plane; prEN6032
Shear Strength	76.4 MPa @Temperature 23.0 °C	11100 psi @Temperature 73.4 °F	ILSS; prEN2563
	116 MPa @Temperature 23.0 °C	16800 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
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Shelf Life	12.0 Month @Temperature -18.0 °C	12.0 Month @Temperature -0.400 °F	
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Descriptive Properties	Value	Comments
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Cured Thickness per Ply (cm)	0.0324	
Fiber Volume (%)	49.4	
Tack Life (days)	15	

Contact Songhan Plastic Technology Co.,Ltd.

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