

Hexcel® HexPly® M48 180°C/356°F Curing Epoxy Matrix, M48/35%/150/AS7 GS

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

Fiber: AS7 GS, UD, 150 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-M4835150AS7-GS.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in³	Resin
	1.58 g/cc	0.0571 lb/in³	Nominal Laminate
	1.80 g/cc	0.0650 lb/in³	Fibre

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2158 MPa @Temperature 23.0 °C	313000 psi @Temperature 73.4 °F	prEN2561 Type B
Tensile Modulus	154 GPa @Temperature 23.0 °C	22300 ksi @Temperature 73.4 °F	prEN2561 Type B
Compressive Yield Strength	216 MPa @Temperature 23.0 °C	31300 psi @Temperature 73.4 °F	Compression After Impact @ 6.7 J/mm; AITM 1.0010
	1321 MPa @Temperature 23.0 °C	191600 psi @Temperature 73.4 °F	prEN2580 Type B
Compressive Modulus	115 GPa @Temperature 23.0 °C	16700 ksi @Temperature 73.4 °F	prEN2580 Type B
Shear Modulus	5.10 GPa @Temperature 23.0 °C	740 ksi @Temperature 73.4 °F	In-Plane; prEN6032
Shear Strength	100 MPa @Temperature 23.0 °C	14500 psi @Temperature 73.4 °F	In-Plane; prEN6032
	103 MPa @Temperature 23.0 °C	14900 psi @Temperature 73.4 °F	ILSS; prEN2563

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)	0.0146	
Fiber Volume (%)	56.9	
Tack Life (days)	15	

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