

## Hexcel® HexPly® M48 180°C/356°F Curing Epoxy Matrix, M48/35%/150/IM7 GS

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

### Material Notes:

Fiber: IM7 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-M4835150IM7-GS.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-M48-180C356F-Curing-Epoxy-Matrix-M4835150IM7-GS.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	Resin
	1.57 g/cc	0.0567 lb/in <sup>3</sup>	Nominal Laminate
	1.79 g/cc	0.0647 lb/in <sup>3</sup>	Fibre

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2895 MPa @Temperature 23.0 °C	419900 psi @Temperature 73.4 °F	prEN2561 Type B
Tensile Modulus	167 GPa @Temperature 23.0 °C	24200 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
	1693 MPa @Temperature 23.0 °C	245500 psi @Temperature 73.4 °F	prEN2580 Type B
Compressive Modulus	153 GPa @Temperature 23.0 °C	22200 ksi @Temperature 73.4 °F	prEN2580 Type B
Shear Strength	105 MPa @Temperature 23.0 °C	15200 psi @Temperature 73.4 °F	ILSS; prEN2563

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	201 °C	394 °F	Onset
	218 °C	424 °F	Peak

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	

Processing Properties	Metric	@Temperature -0.400 English	Comments
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Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.0147	
Fiber Volume (%)	57	
Tack Life (days)	15	

## Contact Songhan Plastic Technology Co.,Ltd.

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