

Hexcel® HexPly® M42 180°C (350°F) Curing Epoxy Matrix, 54%/G1088 Glass/Carbon Fiber

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Epoxy , Epoxy/Carbon Fiber Composite

Material Notes:

Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-M42-180C-350F-Curing-Epoxy-Matrix-54G1088-GlassCarbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	Resin Density
	2.25 g/cc	0.0813 lb/in ³	Fibre Density

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	377 MPa	54700 psi	90°, RT, Dry; EN2561
Tensile Modulus	28.0 GPa	4060 ksi	90°, RT, Dry; EN2561
Compressive Yield Strength	370 MPa	53700 psi	90°, Wet; EN2850 Type B
	@Temperature 150 °C	@Temperature 302 °F	
Shear Modulus	3.00 GPa	435 ksi	In-Plane, RT, Dry; EN6031
	2.00 GPa	290 ksi	In-Plane, Wet; EN6031
	@Temperature 130 °C	@Temperature 266 °F	
Shear Strength	48.0 MPa	6960 psi	0°, ILSS Short Beam, RT, Dry; EN2563
	108 MPa	15700 psi	In-Plane, RT, Dry; EN6031
	27.0 MPa	3920 psi	0°, ILSS Short Beam, Wet; EN2563
	@Temperature 150 °C	@Temperature 302 °F	
	32.0 MPa	4640 psi	0°, ILSS Short Beam, Wet; EN2563
	@Temperature 135 °C	@Temperature 275 °F	
	58.0 MPa	8410 psi	In-Plane, Wet; EN6031
	@Temperature 150 °C	@Temperature 302 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 - 130 °C	248 - 266 °F	Epoxy Matrix Limit

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)	0.011	
Fiber Volume (%)	53	

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