

Hexcel® HexPly® M42 180°C (350°F) Curing Epoxy Matrix, 50%/G939 HS Carbon

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-50G939-HS-Carbon.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	Resin Density
	1.78 g/cc	0.0643 lb/in ³	Fibre Density

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	850 MPa	123000 psi	90°, RT, Dry; EN2561
	750 MPa	109000 psi	90°, Wet; EN2561
	@Temperature 135 °C	@Temperature 275 °F	
Tensile Modulus	62.8 GPa	9110 ksi	90°, RT, Dry; EN2561
	60.0 GPa	8700 ksi	90°, Wet; EN2561
	@Temperature 135 °C	@Temperature 275 °F	
Compressive Yield Strength	730 MPa	106000 psi	90°, RT, Dry; EN2850 Type B
	530 MPa	76900 psi	90°, Wet; EN2850 Type B
	@Temperature 135 °C	@Temperature 275 °F	
Shear Strength	65.0 MPa	9430 psi	0°, ILSS Short Beam, RT, Dry; EN2563
	35.0 MPa	5080 psi	0°, ILSS Short Beam, Wet; EN2563
	@Temperature 135 °C	@Temperature 275 °F	
	49.0 MPa	7110 psi	0°, ILSS Short Beam, Dry; EN2563
	@Temperature 120 °C	@Temperature 248 °F	

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

Processing Properties	Metric	English	Comments
	12.0 Month	12.0 Month	

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

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.022	
Fiber Volume (%)	55	

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