

Hexcel® HexPly® M42 180°C (350°F) Curing Epoxy Matrix, 63%/120 E-Glass Fiber

Category : Polymer , Thermoset , Epoxy , Epoxy/Glass SMC

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-63120-E-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in³	Resin Density
	2.60 g/cc	0.0939 lb/in³	Fibre Density

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	280 MPa	40600 psi	90°, RT, Dry; EN2561
Tensile Modulus	17.0 GPa	2470 ksi	90°, RT, Dry; EN2561
Shear Strength	49.7 MPa	7210 psi	90°, ILSS Short Beam, RT, Dry; EN2563
	55.0 MPa	7980 psi	0°, ILSS Short Beam, RT, Dry; EN2563

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)	0.015	
Fiber Volume (%)	35	

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