

Hexcel® HexPly® M56 180°C (350°F) Out-of-Autoclave Curing Matrix, M56/37%/280H5/AS4-3K

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:
Fiber: AS, Weave: 5HS, 280 g/m2Information provided by HexCel

Order this product through the following link:
http://www.lookpolymers.com/polymer_Hexcel-HexPly-M56-180C-350F-Out-of-Autoclave-Curing-Matrix-M5637280H5AS4-3K.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in³	Cured Resin
	1.50 g/cc	0.0542 lb/in³	Nominal Laminate
	1.79 g/cc	0.0647 lb/in³	Fibre

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	897 MPa	130000 psi	EN2597B
Tensile Modulus	68.2 GPa	9890 ksi	EN2597B
Compressive Yield Strength	852 MPa	124000 psi	EN2850B
Compressive Modulus	58.6 GPa	8500 ksi	EN2850B
Shear Modulus	4.10 GPa	595 ksi	EN6031
Shear Strength	69.2 MPa	10000 psi	ILSS; EN2563
	121 MPa	17500 psi	In-Plane; EN6031

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	193 °C	379 °F	EN6032

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)	0.0297	
Fiber Volume (%)	52.7	Nominal

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