

Hexcel® HexPly® M56 180°C (350°F) Out-of-Autoclave Curing Matrix, M56/40%/285T2/AS4C-6K

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

Fiber: AS4C, Weave: 2x2T, 295 g/m2 Information 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-M5640285T2AS4C-6K.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	Cured Resin
	1.48 g/cc	0.0535 lb/in ³	Nominal Laminate
	1.79 g/cc	0.0647 lb/in ³	Fibre

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	787 MPa	114000 psi	EN2597B
Tensile Modulus	67.0 GPa	9720 ksi	EN2597B
Compressive Yield Strength	807 MPa	117000 psi	EN2850B
Compressive Modulus	58.0 GPa	8410 ksi	EN2850B
Shear Modulus	3.70 GPa	537 ksi	EN6031
Shear Strength	65.0 MPa	9430 psi	ILSS; EN2563
	99.0 MPa	14400 psi	In-Plane; EN6031

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	194 °C	381 °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)	0.0314	
Fiber Volume (%)	49.5	Nominal

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