

Hexcel® HexPly® M56 180°C (350°F) Out-of-Autoclave Curing Matrix, M56/35%/UD134/AS7-12K

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

Fiber: AS7, Weave: UD, 134 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-M5635UD134AS7-12K.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	Cured Resin
	1.51 g/cc	0.0546 lb/in ³	Nominal Laminate
	1.79 g/cc	0.0647 lb/in ³	Fibre

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2330 MPa	338000 psi	EN2597B
Tensile Modulus	141 GPa	20500 ksi	EN2597B
Compressive Yield Strength	1308 MPa	189700 psi	EN2850B
Compressive Modulus	129 GPa	18700 ksi	EN2850B
Shear Modulus	4.10 GPa	595 ksi	EN6031
Shear Strength	94.4 MPa	13700 psi	ILSS; EN2563
	115 MPa	16700 psi	In-Plane; EN6031

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	197 °C	387 °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)	0.0137	
Fiber Volume (%)	54.8	Nominal

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