

Hexcel® HexPly® M12 135°C Curing Epoxy Matrix, TVR380/26% Fiber

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-M12-135C-Curing-Epoxy-Matrix-TVR38026-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	Resin Density
	2.56 g/cc	0.0925 lb/in ³	Fibre Density

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	90°, RT, Dry; EN2561
	1560 MPa	226000 psi	RT; Dry; EN2561
	16.0 MPa	2320 psi	90°, Wet; EN2561
	@Temperature 100 °C	@Temperature 212 °F	
	23.0 MPa	3340 psi	90°, Wet; EN2561
	@Temperature 75.0 °C	@Temperature 167 °F	
Tensile Modulus	620 MPa	89900 psi	Wet; EN2561
	@Temperature 100 °C	@Temperature 212 °F	
	670 MPa	97200 psi	Wet; EN2561
	@Temperature 75.0 °C	@Temperature 167 °F	
Tensile Modulus	16.0 GPa	2320 ksi	90°, RT, Dry; EN2561
	56.0 GPa	8120 ksi	RT; Dry; EN2561
	8.00 GPa	1160 ksi	90°, Wet; EN2561
	@Temperature 100 °C	@Temperature 212 °F	
	11.0 GPa	1600 ksi	90°, Wet; EN2561
	@Temperature 75.0 °C	@Temperature 167 °F	
Tensile Modulus	50.0 GPa	7250 ksi	Wet; EN2561
	@Temperature 100 °C	@Temperature 212 °F	
	51.0 GPa	7400 ksi	Wet; EN2561
	@Temperature 75.0 °C	@Temperature 167 °F	

Mechanical Properties	Metric	English	Comments
	214 MPa	31000 psi	90°, RT, Dry; DIN65380
	140 MPa	20300 psi	90°, Wet; DIN65380
	@Temperature 100 °C	@Temperature 212 °F	
	165 MPa	23900 psi	90°, Wet; DIN65380
	@Temperature 75.0 °C	@Temperature 167 °F	
	800 MPa	116000 psi	Wet; DIN65380
	@Temperature 100 °C	@Temperature 212 °F	
	850 MPa	123000 psi	Wet; DIN65380
	@Temperature 75.0 °C	@Temperature 167 °F	
Compressive Modulus	16.5 GPa	2390 ksi	90°, RT, Dry; DIN65380
	58.0 GPa	8410 ksi	RT; Dry; DIN65380
	12.0 GPa	1740 ksi	90°, Wet; DIN65380
	@Temperature 100 °C	@Temperature 212 °F	
	13.5 GPa	1960 ksi	90°, Wet; DIN65380
	@Temperature 75.0 °C	@Temperature 167 °F	
	52.0 GPa	7540 ksi	Wet; DIN65380
	@Temperature 100 °C	@Temperature 212 °F	
	53.0 GPa	7690 ksi	Wet; DIN65380
	@Temperature 75.0 °C	@Temperature 167 °F	
Shear Strength	67.0 MPa	9720 psi	In-Plane, RT, Dry; EN6031
	95.0 MPa	13800 psi	0°, ILSS (Short Beam), RT, Dry; EN2563
	45.0 MPa	6530 psi	0°, ILSS (Short Beam), Wet; EN2563
	@Temperature 100 °C	@Temperature 212 °F	
	45.0 MPa	6530 psi	In-Plane, Wet; EN6031
	@Temperature 100 °C	@Temperature 212 °F	
	52.0 MPa	7540 psi	In-Plane, Wet; EN6031
	@Temperature 75.0 °C	@Temperature 167 °F	
	61.0 MPa	8850 psi	0°, ILSS (Short Beam), Wet; EN2563
	@Temperature 75.0 °C	@Temperature 167 °F	

Mechanical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Shelf Life	14.0 Month	14.0 Month	
	@Temperature -18.0 °C	@Temperature -0.400 °F	

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.25	
Fiber Volume (%)	60	

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