

Hexcel® HexPly® M49 120°C Curing Epoxy Matrix, 3K High Strength Carbon

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Epoxy , Epoxy/Carbon Fiber Composite

Material Notes:

Fiber Designation: C280T4; Twill 4x4Information provided by HexCel

Order this product through the following link:
http://www.lookpolymers.com/polymer_Hexcel-HexPly-M49-120C-Curing-Epoxy-Matrix-3K-High-Strength-Carbon.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	882 MPa	128000 psi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	56.0 GPa	8120 ksi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Yield Strength	515 MPa	74700 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	818 MPa	119000 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Yield Strength	422 MPa	61200 psi	0°, Conditioning: 23°C; ASTM D965
	@Temperature 90.0 °C	@Temperature 194 °F	
	514 MPa	74500 psi	0°, Conditioning: 23°C; ASTM D965
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shear Strength	36.0 MPa	5220 psi	0°, Interlaminar, Conditioning: 23°C; ASTM D2344
	@Temperature 90.0 °C	@Temperature 194 °F	
	66.0 MPa	9570 psi	0°, Interlaminar, Conditioning: 23°C; ASTM D2344
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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
Dry Resin Content (%)	42	
Fiber Volume (%)	49.5	

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