

## Hexcel® HexPly® M49 120°C Curing Epoxy Matrix, 6K High Strength Carbon

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

**Material Notes:**

Fiber Designation: C370S5, Satin weave, 5H Information provided by HexCel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexPly-M49-120C-Curing-Epoxy-Matrix-6K-High-Strength-Carbon.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-M49-120C-Curing-Epoxy-Matrix-6K-High-Strength-Carbon.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	741 MPa	107000 psi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	54.0 GPa	7830 ksi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Yield Strength	518 MPa	75100 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	921 MPa	134000 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	37.0 GPa	5370 ksi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	41.0 GPa	5950 ksi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Yield Strength	350 MPa	50800 psi	0°, Conditioning: 23°C; ASTM D965
	@Temperature 90.0 °C	@Temperature 194 °F	
	610 MPa	88500 psi	0°, Conditioning: 23°C; ASTM D965
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shear Strength	29.0 MPa	4210 psi	0°, Interlaminar, Conditioning: 60°C-90% RH; ASTM D2344
	@Temperature 60.0 °C	@Temperature 140 °F	
	36.0 MPa	5220 psi	0°, Interlaminar, Conditioning: 23°C; ASTM D2344
	@Temperature 90.0 °C	@Temperature 194 °F	
	69.0 MPa	10000 psi	0°, Interlaminar, Conditioning: 23°C; ASTM D2344
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
		12.0 Month	

Processing Properties	12.0 Month Metric	English @ Temperature -0.400 °F	Comments
	@Temperature -18.0 °C		

Descriptive Properties	Value	Comments
Dry Resin Content (%)	42	
Fiber Volume (%)	49.5	

## Contact Songhan Plastic Technology Co.,Ltd.

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