

## Hexcel® HexPly® M49 120°C Curing Epoxy Matrix, HTA

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

**Material Notes:**

Fiber Designation: C193PW, Plain weave  
Information provided by HexCel

Order this product through the following link:

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	940 MPa	136000 psi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	57.0 GPa	8270 ksi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Yield Strength	672 MPa	97500 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	946 MPa	137000 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	
	40.0 GPa	5800 ksi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Yield Strength	419 MPa	60800 psi	0°, Conditioning: 23°C; ASTM D965
	@Temperature 90.0 °C	@Temperature 194 °F	
	592 MPa	85900 psi	0°, Conditioning: 23°C; ASTM D965
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shear Strength	40.0 MPa	5800 psi	0°, Interlaminar, Conditioning: 60°C-90% RH; ASTM D2344
	@Temperature 60.0 °C	@Temperature 140 °F	
	43.0 MPa	6240 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
		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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China