

## Hexcel® HexPly® M47 140°C Curing Epoxy Matrix, Woven Carbon Prepreg

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

### Material Notes:

42% resin weight with C193PW(HTA) - 193 g/m2 plain weave 3K HTA 49% fiber volume Information provided by HexCel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexPly-M47-140C-Curing-Epoxy-Matrix-Woven-Carbon-Prepreg.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-M47-140C-Curing-Epoxy-Matrix-Woven-Carbon-Prepreg.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	920 MPa	133000 psi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	60.0 GPa	8700 ksi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Yield Strength	935 MPa	136000 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	950 MPa	138000 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	40.0 GPa	5800 ksi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	43.0 GPa	6240 ksi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Yield Strength	537 MPa	77900 psi	0°, Conditioning: 23°C; ASTM D965
	@Temperature 90.0 °C	@Temperature 194 °F	
	715 MPa	104000 psi	0°, Conditioning: 23°C; ASTM D965
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shear Strength	39.0 MPa	5660 psi	0° Interlaminar Shear, Conditioning: 60°C-90%RH; ASTM D2344
	@Temperature 60.0 °C	@Temperature 140 °F	
	57.0 MPa	8270 psi	0° Interlaminar Shear, Conditioning: 23°C; ASTM D2344
	@Temperature 90.0 °C	@Temperature 194 °F	
	80.0 MPa	11600 psi	0° Interlaminar Shear, Conditioning: 23°C; ASTM D2344
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air			Epoxy Matrix Limit

Thermal Properties	120 - 130 °C Metric	248 - 266 °F English	Comments
Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month @Temperature -18.0 °C	12.0 Month @Temperature -0.400 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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