

Hexcel® HexPly® M47 140°C Curing Epoxy Matrix, Unidirectional Carbon Prepreg M46J Fibre

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

Material Notes:

1947 - 38% resin weight with M46J 52.5% 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-Unidirectional-Carbon-Prepreg-M46J-Fibre.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	46.0 MPa	6670 psi	90°, Conditioning: 23°C; ASTM D3039
	@Temperature 90.0 °C	@Temperature 194 °F	
	50.0 MPa	7250 psi	90°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1823 MPa	264400 psi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	5.30 GPa	769 ksi	90°, Conditioning: 23°C; ASTM D3039
	@Temperature 90.0 °C	@Temperature 194 °F	
	7.60 GPa	1100 ksi	90°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	213 GPa	30900 ksi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Yield Strength	906 MPa	131000 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	1120 MPa	162000 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	191 GPa	27700 ksi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	199 GPa	28900 ksi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Yield Strength	196 MPa	28400 psi	Compression After Impact @ 6.67 J/mm
	965 MPa	140000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	0°, 120°C Cure, Conditioning: 23°C; ASTM D965

Mechanical Properties	Metric MPa	English psi	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	0°, Conditioning: 23°C, ASTM D3685
Shear Strength	46.0 MPa	6670 psi	0° Interlaminar Shear, Conditioning: 60°C-90%RH; ASTM D2344
	@Temperature 60.0 °C	@Temperature 140 °F	
	54.0 MPa	7830 psi	0° Interlaminar Shear, Conditioning: 23°C; ASTM D2344
	@Temperature 90.0 °C	@Temperature 194 °F	
	58.0 MPa	8410 psi	0° Interlaminar Shear, 120°C Cure, Conditioning: 23°C; ASTM D2344
	@Temperature 90.0 °C	@Temperature 194 °F	
	80.0 MPa	11600 psi	0° Interlaminar Shear, 120°C Cure, Conditioning: 23°C; ASTM D2344
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	81.0 MPa	11700 psi	0° Interlaminar Shear, 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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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