

Hexcel® HexPly® M49 120°C Curing Epoxy Matrix, AS4-C

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-AS4-C.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	820 MPa	119000 psi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	61.0 GPa	8850 ksi	0°, Conditioning: 23°C; ASTM D3039
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Yield Strength	549 MPa	79600 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	934 MPa	135000 psi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	50.0 GPa	7250 ksi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	55.0 GPa	7980 ksi	0°, Conditioning: 23°C; ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
Compressive Yield Strength	461 MPa	66900 psi	0°, Conditioning: 23°C; ASTM D965
	@Temperature 90.0 °C	@Temperature 194 °F	
	649 MPa	94100 psi	0°, Conditioning: 23°C; ASTM D965
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shear Strength	38.0 MPa	5510 psi	0°, Interlaminar, Conditioning: 23°C; ASTM D2344
	@Temperature 90.0 °C	@Temperature 194 °F	
	40.0 MPa	5800 psi	0°, Interlaminar, Conditioning: 60°C-90% RH; ASTM D2344
	@Temperature 60.0 °C	@Temperature 140 °F	
	64.0 MPa	9280 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

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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