

## Hexcel® HexPly® F652 Bismaleimide Resin, Carbon Fabric Form

Category : Polymer , Thermoset , Polyimide, TS

**Material Notes:**

Material Description: F3G584-60; Fiber: T300-3K; T300/13.5 mils (0.343 mm) per plyInformation provided by HexCel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexPly-F652-Bismaleimide-Resin-Carbon-Fabric-Form.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-F652-Bismaleimide-Resin-Carbon-Fabric-Form.php)

Physical Properties	Metric	English	Comments
Density	1.53 - 1.55 g/cc	0.0553 - 0.0560 lb/in <sup>3</sup>	Laminate
Volatiles	<= 2.0 %	<= 2.0 %	Prepreg

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.9 MPa	8400 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	76.19 GPa	11050 ksi	
Flexural Yield Strength	359.6 MPa	52160 psi	Press Cured; Tested at 316°C after 5-10 min at 316°C
	@Temperature 316 °C	@Temperature 601 °F	
	621 MPa	90100 psi	Press Cured; Tested at 232°C after 500 hours at 232°C
	@Temperature 232 °C	@Temperature 450 °F	
	674 MPa	97800 psi	Press Cured
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	64.3 GPa	9330 ksi	Press Cured; Tested at 232°C after 500 hours at 232°C
	@Temperature 232 °C	@Temperature 450 °F	
	66.1 GPa	9590 ksi	Press Cured; Tested at 316°C after 5-10 min at 316°C
	@Temperature 316 °C	@Temperature 601 °F	
	72.19 GPa	10470 ksi	Press Cured;
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Yield Strength	229 MPa	33200 psi	Press Cured; Tested at 316°C after 5-10 min at 316°C
	@Temperature 229 °C	@Temperature 444 °F	
	324 MPa	47000 psi	Press Cured; Tested at 232°C after 500 hours at 232°C
	@Temperature 232 °C	@Temperature 450 °F	
	478 MPa	69300 psi	

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Compressive Modulus	66.3 GPa	9620 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shear Modulus	31.7 GPa	4600 ksi	Short Beam; Press Cured; Tested at 232°C after 500 hours at 232°C
	@Temperature 232 °C	@Temperature 450 °F	
	31.8 GPa	4610 ksi	Short Beam; Press Cured; Tested at 316°C after 5-10 min at 316°C
	@Temperature 316 °C	@Temperature 601 °F	
	41.2 GPa	5980 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.031-0.0318	Laminate
Dry Resin Content (%)	34	Prepreg
Fiber Volume (%)	64.5	Laminate

## 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