

## Hexcel® HexPly® 8552 Epoxy Matrix, SGP196-PW Fiber

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

**Material Notes:**

Information provided by HexCel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexPly-8552-Epoxy-Matrix-SGP196-PW-Fiber.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-8552-Epoxy-Matrix-SGP196-PW-Fiber.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	391 MPa	56700 psi	Open Hole Tensile, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	862 MPa	125000 psi	90°, Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	945 MPa	137000 psi	90°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	979 MPa	142000 psi	0°, Dry
@Temperature -55.0 °C	@Temperature -67.0 °F		
979 MPa	142000 psi	90°, Dry	
@Temperature 104 °C	@Temperature 220 °F		
1090 MPa	158000 psi	0°, Dry	
@Temperature 25.0 °C	@Temperature 77.0 °F		
Tensile Modulus	79.3 GPa	11500 ksi	90°, Dry
	@Temperature 220 °C	@Temperature 428 °F	
	80.0 GPa	11600 ksi	90°, Dry
	@Temperature -67.0 °C	@Temperature -88.6 °F	
	80.0 GPa	11600 ksi	90°, Dry
	@Temperature 77.0 °C	@Temperature 171 °F	
	84.8 GPa	12300 ksi	0°, Dry
@Temperature -67.0 °C	@Temperature -88.6 °F		
84.8 GPa	12300 ksi	0°, Dry	
@Temperature 77.0 °C	@Temperature 171 °F		
Flexural Yield Strength	1140 MPa	165000 psi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	75.5 GPa Metric	11100 ksi English	Comments
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Compressive Yield Strength	293 MPa	42500 psi	Compression After Impact, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	359 MPa	52100 psi	Open Hole Compression, Dry
	@Temperature 25.6 °C	@Temperature 78.0 °F	
	558 MPa	81000 psi	0°, Wet, Fill Compression
	@Temperature 82.2 °C	@Temperature 180 °F	
	600 MPa	87000 psi	0°, Wet, Fill Compression
	@Temperature 104 °C	@Temperature 220 °F	
	655 MPa	95000 psi	0°, Wet, Fill Compression
	@Temperature 104 °C	@Temperature 220 °F	
	710 MPa	103000 psi	0°, Dry, Fill Compression
	@Temperature 104 °C	@Temperature 220 °F	
	800 MPa	116000 psi	0°, Dry, Fill Compression
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	855 MPa	124000 psi	0°, Dry, Fill Compression
	@Temperature -55.0 °C	@Temperature -67.0 °F	
Shear Strength	60.7 MPa	8800 psi	0° Short Beam, Wet
	@Temperature 82.2 °C	@Temperature 180 °F	
	68.9 MPa	10000 psi	0° Short Beam, Dry
	@Temperature 104 °C	@Temperature 220 °F	
	80.0 MPa	11600 psi	0° Short Beam, Wet
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	87.6 MPa	12700 psi	0° Short Beam, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	107 MPa	15500 psi	+/- 45° In-Plane, Dry
	@Temperature 104 °C	@Temperature 220 °F	
	126 MPa	18300 psi	+/- 45° In-Plane, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	Epoxy Matrix Limit

## 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