

Hexcel® HexPly® 8552 Epoxy Matrix, SGP370-8H 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-SGP370-8H-Fiber.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	402 MPa	58300 psi	Open Hole Tensile, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	896 MPa	130000 psi	90°, Dry
	@Temperature 104 °C	@Temperature 220 °F	
	903 MPa	131000 psi	90°, Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	958 MPa	139000 psi	90°, Dry
@Temperature 25.0 °C	@Temperature 77.0 °F		
Tensile Modulus	965 MPa	140000 psi	0°, Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	1010 MPa	147000 psi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	79.3 GPa	11500 ksi	90°, Dry
	@Temperature 220 °C	@Temperature 428 °F	
	80.7 GPa	11700 ksi	90°, Dry
@Temperature -67.0 °C	@Temperature -88.6 °F		
Flexural Yield Strength	80.7 GPa	11700 ksi	90°, Dry
	@Temperature 77.0 °C	@Temperature 171 °F	
	85.5 GPa	12400 ksi	0°, Dry
	@Temperature 77.0 °C	@Temperature 171 °F	
	86.2 GPa	12500 ksi	0°, Dry
	@Temperature -67.0 °C	@Temperature -88.6 °F	
	1130 MPa	164000 psi	0°, Dry
@Temperature 25.0 °C	@Temperature 77.0 °F		

Mechanical Properties	74.5 MPa Metric	10800 psi English	Comments
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Compressive Yield Strength	276 MPa	40000 psi	Compression After Impact, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	339 MPa	49200 psi	Open Hole Compression, Dry
	@Temperature 25.6 °C	@Temperature 78.0 °F	
	607 MPa	88000 psi	0°, Wet, Fill Compression
	@Temperature 82.2 °C	@Temperature 180 °F	
	648 MPa	94000 psi	0°, Wet, Fill Compression
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	662 MPa	96000 psi	0°, Dry, Fill Compression
	@Temperature 104 °C	@Temperature 220 °F	
	834 MPa	121000 psi	0°, Dry, Fill Compression
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	910 MPa	132000 psi	0°, Dry, Fill Compression
	@Temperature -55.0 °C	@Temperature -67.0 °F	
Shear Strength	62.7 MPa	9100 psi	0° Short Beam, Wet
	@Temperature 82.2 °C	@Temperature 180 °F	
	74.5 MPa	10800 psi	0° Short Beam, Dry
	@Temperature 104 °C	@Temperature 220 °F	
	83.4 MPa	12100 psi	0° Short Beam, Wet
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	89.6 MPa	13000 psi	0° Short Beam, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	90.3 MPa	13100 psi	+/- 45° In-Plane, Dry
	@Temperature 104 °C	@Temperature 220 °F	
	101 MPa	14600 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

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