

Hexcel® HexPly® 8552 Epoxy Matrix, A280-5H 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-A280-5H-Fiber.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	352 MPa	51000 psi	Open Hole Tensile, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	752 MPa	109000 psi	90°, Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	772 MPa	112000 psi	90°, Dry
	@Temperature 93.3 °C	@Temperature 200 °F	
	800 MPa	116000 psi	90°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Tensile Modulus	827 MPa	120000 psi	0°, Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	876 MPa	127000 psi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	903 MPa	131000 psi	0°, Dry
	@Temperature 90.6 °C	@Temperature 195 °F	
	64.8 GPa	9400 ksi	90°, Dry
	@Temperature 200 °C	@Temperature 392 °F	
	65.5 GPa	9500 ksi	90°, Dry
	@Temperature 77.0 °C	@Temperature 171 °F	
	66.9 GPa	9700 ksi	90°, Dry
	@Temperature -67.0 °C	@Temperature -88.6 °F	
	66.9 GPa	9700 ksi	0°, Dry
	@Temperature 77.0 °C	@Temperature 171 °F	
	68.9 GPa	10000 ksi	0°, Dry
	@Temperature 195 °C	@Temperature 383 °F	

Mechanical Properties	70.3 GPa Metric	10200 ksi English	Comments 0°, Dry
	@Temperature -67.0 °C	@Temperature -88.6 °F	
Flexural Yield Strength	1030 MPa	150000 psi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Flexural Modulus	58.6 GPa	8500 ksi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Compressive Yield Strength	281 MPa	40800 psi	Compression After Impact, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	370 MPa	53700 psi	Open Hole Compression, Dry
	@Temperature 25.6 °C	@Temperature 78.0 °F	
	510 MPa	74000 psi	0°, Wet
	@Temperature 93.3 °C	@Temperature 200 °F	
	526 MPa	76300 psi	Compression Before Impact, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	752 MPa	109000 psi	0°, Dry
	@Temperature 93.3 °C	@Temperature 200 °F	
	889 MPa	129000 psi	0°, Dry, Fill Compression
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	924 MPa	134000 psi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1030 MPa	150000 psi	0°, Dry, Fill Compression
	@Temperature -55.0 °C	@Temperature -67.0 °F	
Compressive Modulus	64.1 GPa	9300 ksi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	66.9 GPa	9700 ksi	0°, Dry
	@Temperature 93.3 °C	@Temperature 200 °F	
Shear Strength	47.6 MPa	6900 psi	0° Short Beam, Dry
	@Temperature 93.3 °C	@Temperature 200 °F	
	68.9 MPa	10000 psi	0° Short Beam, Wet
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	78.6 MPa	11400 psi	

Mechanical Properties	Metric @ Temperature 25.0 °C	English @ Temperature 77.0 °F	0" Short Beam, Dry Comments
	80.7 MPa @Temperature 25.0 °C	11700 psi @Temperature 77.0 °F	Fill Short Beam, Dry
	94.5 MPa @Temperature -55.0 °C	13700 psi @Temperature -67.0 °F	Fill Short Beam, Dry
	110 MPa @Temperature 25.0 °C	15900 psi @Temperature 77.0 °F	+/- 45° In-Plane, Dry

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

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