

Hexcel® HexPly® 8552 Epoxy Matrix, A193-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-A193-PW-Fiber.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	710 MPa	103000 psi	90°, Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	765 MPa	111000 psi	0°, Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	765 MPa	111000 psi	90°, Dry
	@Temperature 93.3 °C	@Temperature 200 °F	
Tensile Modulus	793 MPa	115000 psi	90°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	800 MPa	116000 psi	0°, Dry
	@Temperature 90.6 °C	@Temperature 195 °F	
	827 MPa	120000 psi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Tensile Modulus	65.5 GPa	9500 ksi	0°, Dry
	@Temperature -67.0 °C	@Temperature -88.6 °F	
	65.5 GPa	9500 ksi	90°, Dry
	@Temperature 77.0 °C	@Temperature 171 °F	
	66.2 GPa	9600 ksi	0°, Dry
	@Temperature 195 °C	@Temperature 383 °F	
Tensile Modulus	66.2 GPa	9600 ksi	90°, Dry
	@Temperature -67.0 °C	@Temperature -88.6 °F	
	67.6 GPa	9800 ksi	0°, Dry
	@Temperature 77.0 °C	@Temperature 171 °F	
	67.6 GPa	9800 ksi	90°, Dry
	@Temperature 200 °C	@Temperature 392 °F	

Mechanical Properties Compressive Yield Strength	586 MPa Metric	85000 psi English	Comments 0°, Wet
	@Temperature 90.6 °C	@Temperature 195 °F	
	600 MPa	87000 psi	0°, Wet, Fill Compression
	@Temperature 90.6 °C	@Temperature 195 °F	
	696 MPa	101000 psi	0°, Wet, Fill Compression
	@Temperature 71.1 °C	@Temperature 160 °F	
	703 MPa	102000 psi	0°, Wet
	@Temperature 71.1 °C	@Temperature 160 °F	
	758 MPa	110000 psi	0°, Dry
	@Temperature 90.6 °C	@Temperature 195 °F	
	786 MPa	114000 psi	0°, Dry, Fill Compression
	@Temperature 90.6 °C	@Temperature 195 °F	
	800 MPa	116000 psi	0°, Wet, Fill Compression
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	876 MPa	127000 psi	0°, Dry, Fill Compression
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	876 MPa	127000 psi	0°, Dry, Fill Compression
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	883 MPa	128000 psi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	958 MPa	139000 psi	0°, Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
Compressive Modulus	59.3 GPa	8600 ksi	0°, Wet
	@Temperature 71.1 °C	@Temperature 160 °F	
	60.0 GPa	8700 ksi	0°, Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	60.0 GPa	8700 ksi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	60.7 GPa	8800 ksi	0°, Dry
	@Temperature 90.6 °C	@Temperature 195 °F	
	58.6 MPa	8500 psi	

Shear Strength Mechanical Properties	Metric @ Temperature 90.6 °C	English @ Temperature 195 °F	0° Short Beam, Wet Comments
	58.6 MPa @Temperature 90.6 °C	8500 psi @Temperature 195 °F	Fill Short Beam, Wet
	70.3 MPa @Temperature 90.6 °C	10200 psi @Temperature 195 °F	0° Short Beam, Dry
	70.3 MPa @Temperature 90.6 °C	10200 psi @Temperature 195 °F	Fill Short Beam, Dry
	71.7 MPa @Temperature 71.1 °C	10400 psi @Temperature 160 °F	0° Short Beam, Wet
	74.5 MPa @Temperature -55.0 °C	10800 psi @Temperature -67.0 °F	Fill Short Beam, Dry
	75.2 MPa @Temperature 25.0 °C	10900 psi @Temperature 77.0 °F	0° Short Beam, Wet
	78.6 MPa @Temperature 25.0 °C	11400 psi @Temperature 77.0 °F	Fill Short Beam, Wet
	81.4 MPa @Temperature 25.0 °C	11800 psi @Temperature 77.0 °F	Fill Short Beam, Dry
	84.1 MPa @Temperature 25.0 °C	12200 psi @Temperature 77.0 °F	0° Short Beam, Dry
	101 MPa @Temperature -55.0 °C	14600 psi @Temperature -67.0 °F	0° Short Beam, Dry

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

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