

Hexcel® HexPly® 8551-7 Epoxy Matrix, AS4 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-8551-7-Epoxy-Matrix-AS4-Fiber.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2170 MPa	315000 psi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Elongation at Yield	1.4 %	1.4 %	0°, Dry
Tensile Modulus	145 GPa	21000 ksi	0°, Dry
Flexural Yield Strength	1700 MPa	247000 psi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Flexural Modulus	123 GPa	17800 ksi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Compressive Yield Strength	262 MPa	38000 psi	Open hole compression, Wet
	@Temperature 82.0 °C	@Temperature 180 °F	
	303 MPa	43900 psi	After 1500 in-inlb/in impact, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	303 MPa	43900 psi	Open hole compression, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1170 MPa	170000 psi	0°, Wet
	@Temperature 82.0 °C	@Temperature 180 °F	
	1240 MPa	180000 psi	0°, Dry
	@Temperature 121 °C	@Temperature 250 °F	
	1410 MPa	205000 psi	0°, Dry
	@Temperature 82.0 °C	@Temperature 180 °F	
	1590 MPa	231000 psi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Compressive Modulus	123 GPa	17800 ksi	0°, Wet
	@Temperature 82.0 °C	@Temperature 180 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 121 °C	@Temperature 250 °F	0°, Dry
	129 GPa	18700 ksi	0°, Wet
	@Temperature 104 °C	@Temperature 219 °F	
	138 GPa	20000 ksi	0°, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Shear Strength	50.3 MPa	7300 psi	Short Beam, Wet
	@Temperature 121 °C	@Temperature 250 °F	
	65.5 MPa	9500 psi	Short Beam, Dry
	@Temperature 121 °C	@Temperature 250 °F	
	82.7 MPa	12000 psi	Short Beam, Wet
	@Temperature 82.0 °C	@Temperature 180 °F	
	84.8 MPa	12300 psi	Short Beam, Dry
	@Temperature 82.0 °C	@Temperature 180 °F	
	107 MPa	15500 psi	Short Beam, Dry
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	93.3 °C	200 °F	Epoxy Matrix Limit

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