

Hexcel® HexPly® 954-2A Curing Cyanate Resin, Quartz Fiber Reinforced 8 Harness Satin Fabric

Category : Polymer , Thermoset , Epoxy

Material Notes:

Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-954-2A-Curing-Cyanate-Resin-Quartz-Fiber-Reinforced-8-Harness-Satin-Fabric.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	648 MPa	94000 psi	0°
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	3.5 %	3.5 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	22.1 GPa	3210 ksi	0°
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Yield Strength	765 MPa	111000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	20.7 GPa	3000 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Yield Strength	345 MPa	50000 psi	0°, Wet (Immersed in water at 71°C for 7 days)
	@Temperature 163 °C	@Temperature 325 °F	
	359 MPa	52100 psi	0°, Wet (Immersed in water at 71°C for 7 days)
	@Temperature 149 °C	@Temperature 300 °F	
	372 MPa	54000 psi	0°
	@Temperature 177 °C	@Temperature 351 °F	
	407 MPa	59000 psi	0°
	@Temperature 163 °C	@Temperature 325 °F	
	517 MPa	75000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Modulus	21.4 GPa	3100 ksi	0°
	@Temperature 177 °C	@Temperature 351 °F	
	23.4 GPa	3390 ksi	

Mechanical Properties	Metric	English	Comments
	23.4 GPa @Temperature 163 °C	3390 ksi @Temperature 325 °F	0°, Wet (Immersed in water at 71°C for 7 days)
	23.4 GPa @Temperature 149 °C	3390 ksi @Temperature 300 °F	0°, Wet (Immersed in water at 71°C for 7 days)
	23.4 GPa @Temperature 163 °C	3390 ksi @Temperature 325 °F	0°, Wet (Immersed in water at 71°C for 7 days)
	23.4 GPa @Temperature 23.0 °C	3390 ksi @Temperature 73.4 °F	
Shear Strength	37.2 MPa @Temperature 163 °C	5400 psi @Temperature 325 °F	Short Beam, Wet (Immersed in water at 71°C for 7 days)
	44.1 MPa @Temperature 149 °C	6400 psi @Temperature 300 °F	Short Beam, Wet (Immersed in water at 71°C for 7 days)
	44.8 MPa @Temperature 177 °C	6500 psi @Temperature 351 °F	Short Beam
	46.2 MPa @Temperature 163 °C	6700 psi @Temperature 325 °F	Short Beam
	71.7 MPa @Temperature 23.0 °C	10400 psi @Temperature 73.4 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.22 @Frequency 2.07e+10 Hz, Temperature 23.0 °C	3.22 @Frequency 2.07e+10 Hz, Temperature 73.4 °F	Ambient moisture content
	3.32 @Frequency 4.45e+10 Hz, Temperature 23.0 °C	3.32 @Frequency 4.45e+10 Hz, Temperature 73.4 °F	Ambient moisture content
Dielectric Loss Index	0.0060 @Frequency 2.07e+10 Hz, Temperature 23.0 °C	0.0060 @Frequency 2.07e+10 Hz, Temperature 73.4 °F	Ambient moisture content
	0.0060 @Frequency 4.45e+10 Hz, Temperature 23.0 °C	0.0060 @Frequency 4.45e+10 Hz, Temperature 73.4 °F	Ambient moisture content

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