

Hexcel® HexPly® F515 Epoxy Resin, 1581 Glass Fabric

Category : Polymer , Thermoset , Epoxy , Epoxy/Glass SMC

Material Notes:

Hexcel designation: 1581-38"-F515; Fiber 150-1/2
Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F515-Epoxy-Resin-1581-Glass-Fabric.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	5.516 MPa	800.0 psi	Flatwise tensile, RT
	310 MPa	45000 psi	1/2 hr
	@Temperature 71.0 °C	@Temperature 160 °F	
Tensile Modulus	400 MPa	58000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	20.7 GPa	3000 ksi	1/2 hr
Flexural Yield Strength	22.1 GPa	3210 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.896 MPa	130 psi	Long beam flexure, RT
Flexural Modulus	448 MPa	65000 psi	1/2 hr
	@Temperature 71.0 °C	@Temperature 160 °F	
	538 MPa	78000 psi	
Compressive Yield Strength	@Temperature 23.0 °C	@Temperature 73.4 °F	
	20.7 GPa	3000 ksi	1/2 hr
	@Temperature 71.0 °C	@Temperature 160 °F	
Compressive Modulus	22.1 GPa	3210 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	310 MPa	45000 psi	1/2 hr
Compressive Modulus	@Temperature 71.0 °C	@Temperature 160 °F	
	483 MPa	70100 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Modulus	22.1 GPa	3210 ksi	1/2 hr
	@Temperature 71.0 °C	@Temperature 160 °F	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric Pa	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shear Strength	29.0 MPa	4210 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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