

Hexcel® HexPly® F155 Epoxy Resin, 181 Glass Fabric

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

Material Notes:

Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F155-Epoxy-Resin-181-Glass-Fabric.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	4.206 MPa	610.0 psi	Flatwise TS
	@Temperature 93.0 °C	@Temperature 199 °F	
	4.826 MPa	700.0 psi	Flatwise TS
	@Temperature 71.0 °C	@Temperature 160 °F	
	5.378 MPa	780.0 psi	Flatwise TS
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	393 MPa	57000 psi	
	@Temperature 93.0 °C	@Temperature 199 °F	
	427 MPa	61900 psi	
	@Temperature 71.0 °C	@Temperature 160 °F	
	483 MPa	70100 psi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Tensile Modulus	20.0 GPa	2900 ksi	
	@Temperature 93.0 °C	@Temperature 199 °F	
	21.4 GPa	3100 ksi	
	@Temperature 71.0 °C	@Temperature 160 °F	
	23.4 GPa	3390 ksi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Yield Strength	331 MPa	48000 psi	
	@Temperature 93.0 °C	@Temperature 199 °F	
	400 MPa	58000 psi	
	@Temperature 71.0 °C	@Temperature 160 °F	
	517 MPa	75000 psi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	

Mechanical Properties	22.1 GPa Metric	3210 ksi English	Comments
Compressive Modulus	@Temperature 93.0 °C	@Temperature 199 °F	
	23.4 GPa	3390 ksi	
	@Temperature 71.0 °C	@Temperature 160 °F	
	25.5 GPa	3700 ksi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Shear Strength	68.9 MPa	9990 psi	Compression interlaminar; RT
	37.0 MPa	5370 psi	Compression interlaminar
	@Temperature 93.0 °C	@Temperature 199 °F	
	48.0 MPa	6960 psi	Compression interlaminar
	@Temperature 71.0 °C	@Temperature 160 °F	

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