

Hexcel® HexPly® F522 Epoxy Resin, T2C145 Carbon Tape

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Epoxy , Epoxy/Carbon Fiber Composite

Material Notes:

Hexcel designation: T_145-12"-F522; Various Fibers; (145 g/m2) Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F522-Epoxy-Resin-T2C145-Carbon-Tape.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.7 MPa	2860 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	1758 MPa	255000 psi	
	@Temperature -55.0 °C	@Temperature -67.0 °F	Dry
	1793 MPa	260100 psi	
	@Temperature 71.0 °C	@Temperature 160 °F	
Tensile Modulus	131.7 GPa	19100 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	132.4 GPa	19200 ksi	
	@Temperature 71.0 °C	@Temperature 160 °F	Dry
	140 GPa	20300 ksi	
	@Temperature -55.0 °C	@Temperature -67.0 °F	
Compressive Yield Strength	848 MPa	123000 psi	Wet (14 ± 1/2 days of water immersion at 160 ± 5°F (71 ± 3°C))
	@Temperature 71.0 °C	@Temperature 160 °F	
	1117 MPa	162000 psi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	Dry
	119.3 GPa	17300 ksi	
	@Temperature 71.0 °C	@Temperature 160 °F	
Compressive Modulus	133.1 GPa	19300 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	38.6 MPa	5600 psi	
Shear Strength	@Temperature 71.0 °C	@Temperature 160 °F	Short Beam, Wet (14 ± 1/2 days of water immersion at 160 ± 5°F (71 ± 3°C))
	82.0 MPa	11900 psi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	@Temperature 24.0 °C	@Temperature 75.2 °F	Short Beam, Dry

Descriptive Properties	Value	Comments
Dry Resin Content (%)	37-41	Prepreg
Fiber Volume (%)	0.014	Laminate
Flow (%)	4-16	
Wet Resin Content (%)	52	Laminate

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