

Hexcel® HexPly® F593 Epoxy Resin, T2G190 Carbon Tape

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

Material Notes:

Hexcel designation: T2GXXX-12"-F593; Fiber: Amoco T-300/12k Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F593-Epoxy-Resin-T2G190-Carbon-Tape.php

Physical Properties	Metric	English	Comments
Volatiles	1.0 - 4.0 %	1.0 - 4.0 %	Prepreg

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	3.372 MPa	489.1 psi	Sandwich Flatwise Tension, Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
	5.192 MPa	753.0 psi	Sandwich Flatwise Tension, Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	1269 MPa	184100 psi	Dry
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	1331 MPa	193000 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	1427 MPa	207000 psi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	1751 MPa	254000 psi	Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
Tensile Modulus	120 GPa	17400 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	121.4 GPa	17610 ksi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	123.4 GPa	17900 ksi	Dry
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	126.2 GPa	18300 ksi	Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
Compressive Yield Strength	183 MPa	26500 psi	Compression After Impact, Dry

Mechanical Properties	@Temperature 24.0 °C Metric	@Temperature 75.2 °F English	Comments
	1234 MPa	179000 psi	
	@Temperature 71.0 °C	@Temperature 160 °F	Wet
	1455 MPa	211000 psi	
	@Temperature 93.0 °C	@Temperature 199 °F	Dry
	1538 MPa	223100 psi	
	@Temperature 71.0 °C	@Temperature 160 °F	Dry
	1655 MPa	240000 psi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	Dry
	1786 MPa	259000 psi	
	@Temperature -59.0 °C	@Temperature -74.2 °F	Dry
Compressive Modulus	108.3 GPa	15710 ksi	
	@Temperature -59.0 °C	@Temperature -74.2 °F	Dry
	113.8 GPa	16510 ksi	
	@Temperature 93.0 °C	@Temperature 199 °F	Dry
	114.5 GPa	16610 ksi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	Dry
	115.1 GPa	16690 ksi	
	@Temperature 71.0 °C	@Temperature 160 °F	Dry

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.02-0.021	Laminate
Dry Resin Content (%)	36-40	Prepreg
Fiber Volume (%)	50-55	Laminate
Flow (%)	13-25	

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