

Hexcel® HexPly® F593 Epoxy Resin, T2G145 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-T2G145-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	5.288 MPa	767.0 psi	Sandwich Flatwise Tension, Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	1517 MPa	220000 psi	Dry
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	1731 MPa	251100 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	1772 MPa	257000 psi	Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
Tensile Modulus	119.3 GPa	17300 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	126.2 GPa	18300 ksi	Dry
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	129.6 GPa	18800 ksi	Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
Compressive Yield Strength	1248 MPa	181000 psi	Wet
	@Temperature 71.0 °C	@Temperature 160 °F	
	1372 MPa	199000 psi	Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
	1538 MPa	223100 psi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	1682 MPa	244000 psi	Dry

Mechanical Properties	@Temperature 24.0 °C Metric	@Temperature 75.2 °F English	Comments
	1724 MPa	250000 psi	Dry
	@Temperature -59.0 °C	@Temperature -74.2 °F	
Compressive Modulus	110.3 GPa	16000 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	114.5 GPa	16610 ksi	Dry
	@Temperature -59.0 °C	@Temperature -74.2 °F	
	114.5 GPa	16610 ksi	Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
	116.5 GPa	16900 ksi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.015-0.016	Laminate
Dry Resin Content (%)	36-40	Prepreg
Fiber Volume (%)	50-55	Laminate
Flow (%)	13-25	

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