

Hexcel® HexPly® F593 Epoxy Resin, W3G282 Carbon Fabric

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

Material Notes:

Hexcel designation: W3G282-42"-F593; Fiber: Amoco T-300/3k Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F593-Epoxy-Resin-W3G282-Carbon-Fabric.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2.965 MPa	430.0 psi	Sandwich Flatwise Tension, Wet
	@Temperature 93.0 °C	@Temperature 199 °F	
	3.896 MPa	565.1 psi	Sandwich Flatwise Tension, Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
	4.682 MPa	679.1 psi	Sandwich Flatwise Tension, Dry
	@Temperature -59.0 °C	@Temperature -74.2 °F	
	4.806 MPa	697.1 psi	Sandwich Flatwise Tension, Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	419 MPa	60800 psi	Wet
	@Temperature 71.0 °C	@Temperature 160 °F	
Tensile Modulus	420 MPa	60900 psi	Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
	462 MPa	67000 psi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	485 MPa	70300 psi	Dry
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	637 MPa	92400 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	49.6 GPa	7190 ksi	Wet
	@Temperature 71.0 °C	@Temperature 160 °F	
	51.7 GPa	7500 ksi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	53.8 GPa	7800 ksi	Dry
	@Temperature 93.0 °C	@Temperature 199 °F	

Mechanical Properties	55.2 GPa Metric	8010 ksi English	Comments Dry
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	56.5 GPa	8190 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Yield Strength	410 MPa	59500 psi	Wet
	@Temperature 71.0 °C	@Temperature 160 °F	
	469 MPa	68000 psi	Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
	536 MPa	77700 psi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	627 MPa	90900 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	745 MPa	108000 psi	Dry
	@Temperature -59.0 °C	@Temperature -74.2 °F	
Compressive Modulus	44.8 GPa	6500 ksi	Wet
	@Temperature 71.0 °C	@Temperature 160 °F	
	46.9 GPa	6800 ksi	Dry
	@Temperature 93.0 °C	@Temperature 199 °F	
	48.3 GPa	7010 ksi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	50.3 GPa	7300 ksi	Dry
	@Temperature -59.0 °C	@Temperature -74.2 °F	
	51.0 GPa	7400 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	

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