

## Hexcel® HexPly® F522 Epoxy Resin, W3C282 Carbon Fabric

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

**Material Notes:**

Hexcel designation: TW3C282-42"-F522; Fiber: Toho® G30/500-3K Information provided by HexCel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexPly-F522-Epoxy-Resin-W3C282-Carbon-Fabric.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-F522-Epoxy-Resin-W3C282-Carbon-Fabric.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	745 MPa	108000 psi	Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	855 MPa	124000 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	855 MPa	124000 psi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
Tensile Modulus	62.7 GPa	9090 ksi	Dry
	@Temperature 71.0 °C	@Temperature 160 °F	
	63.4 GPa	9200 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	64.8 GPa	9400 ksi	Dry
	@Temperature -55.0 °C	@Temperature -67.0 °F	
Flexural Yield Strength	276 MPa	40000 psi	Long Beam, dry
Compressive Yield Strength	400 MPa	58000 psi	Wet (14 ± 1/2 days of water immersion at 160 ± 5°F (71 ± 3°C))
	@Temperature 71.0 °C	@Temperature 160 °F	
	655 MPa	95000 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Modulus	59.3 GPa	8600 ksi	Wet (14 ± 1/2 days of water immersion at 160 ± 5°F (71 ± 3°C))
	@Temperature 71.0 °C	@Temperature 160 °F	
	64.1 GPa	9300 ksi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Bearing Yield Strength	848 MPa	123000 psi	Dry
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	26.2 MPa	3800 psi	Short Beam, Wet (14 ± 1/2 days of

Shear Strength Mechanical Properties	Metric @ Temperature 71.0 °C	English @ Temperature 160 °F	Comments water immersion at 160 ± 5°F (71 ± 3°C)
	60.0 MPa @Temperature 24.0 °C	8700 psi @Temperature 75.2 °F	Short Beam, Jet Fuel (30 ± 1 days of Jet A Fuel (ASTM D1655) at 75 ± 5°F (24 ± 3°C))
	61.0 MPa @Temperature 24.0 °C	8850 psi @Temperature 75.2 °F	Short Beam, Dry
	61.4 MPa @Temperature 24.0 °C	8910 psi @Temperature 75.2 °F	Short Beam, Skydrol (30 ± 1 days of Type 2 Skydrol Hydraulic Fluid at 140 ± 5°F (60 ± 3°C))

Descriptive Properties	Value	Comments
Dry Resin Content (%)	37-41	Prepreg
Fiber Volume (%)	0.02	Laminate
Flow (%)	8-20	
Wet Resin Content (%)	52	Laminate

## Contact Songhan Plastic Technology Co.,Ltd.

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