

Hexcel® HexPly® F263 Epoxy Resin, W3T282 Carbon Fabric

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

Material Notes:

Hexcel designation: W3T282-42"-F263; Fiber: T300 Celion
Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F263-Epoxy-Resin-W3T282-Carbon-Fabric.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	541 MPa	78500 psi	
	@Temperature 177 °C	@Temperature 351 °F	
	570 MPa	82700 psi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Tensile Modulus	57.7 GPa	8370 ksi	
	@Temperature 177 °C	@Temperature 351 °F	
	60.7 GPa	8800 ksi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Compressive Yield Strength	575 MPa	83400 psi	
	@Temperature 71.0 °C	@Temperature 160 °F	
	648 MPa	94000 psi	
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Shear Strength	46.0 MPa	6670 psi	Short Beam
	@Temperature 177 °C	@Temperature 351 °F	
	56.0 MPa	8120 psi	Short Beam
	@Temperature 132 °C	@Temperature 270 °F	
	72.0 MPa	10400 psi	Short Beam
	@Temperature -54.0 °C	@Temperature -65.2 °F	
	74.0 MPa	10700 psi	Short Beam
	@Temperature 24.0 °C	@Temperature 75.2 °F	

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.018	Laminate
Dry Resin Content (%)	38-42	Prepreg

Fiber Volume (%) Descriptive Properties	Value	Laminate Comments
Flow (%)	9-22	

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