

Hexcel® HexPly® F655 Bismaleimide Resin, Carbon Fabric Form

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Fiber: T300-3K Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F655-Bismaleimide-Resin-Carbon-Fabric-Form.php

Physical Properties	Metric	English	Comments
Density	1.53 - 1.56 g/cc	0.0553 - 0.0564 lb/in ³	Laminate
Volatiles	<= 2.0 %	<= 2.0 %	Prepreg

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	573 MPa	83100 psi	T300, Plain Weave; Fill Tension; Wet
	@Temperature 177 °C	@Temperature 351 °F	
	574 MPa	83300 psi	T300, Plain Weave; Fill Tension;
	@Temperature -59.0 °C	@Temperature -74.2 °F	
	579 MPa	84000 psi	T300, Plain Weave; Fill Tension; AMC
@Temperature 232 °C	@Temperature 450 °F		
Tensile Modulus	638 MPa	92500 psi	T300, Plain Weave; Fill Tension; Dry
	@Temperature 232 °C	@Temperature 450 °F	
	665 MPa	96500 psi	T300, Plain Weave; Fill Tension; AMC
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	60.0 GPa	8700 ksi	T300, Plain Weave; Fill Tension; Wet
@Temperature 232 °C	@Temperature 450 °F		
Compressive Yield Strength	60.7 GPa	8800 ksi	T300, Plain Weave; Fill Tension; Wet
	@Temperature 177 °C	@Temperature 351 °F	
	61.4 GPa	8910 ksi	T300, Plain Weave; Fill Tension;
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	64.8 GPa	9400 ksi	T300, Plain Weave; Fill Compression; Wet
@Temperature -59.0 °C	@Temperature -74.2 °F		
Compressive Yield Strength	420 MPa	60900 psi	T300, Plain Weave; Fill Compression; Wet
	@Temperature 177 °C	@Temperature 351 °F	

Mechanical Properties	445 MPa Metric	64500 psi English	Comments Weave; Fill Compression; AMC
	@Temperature 232 °C	@Temperature 450 °F	
	896 MPa	130000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1111 MPa	161100 psi	T300, Plain Weave; Fill Compression
	@Temperature -59.0 °C	@Temperature -74.2 °F	
Compressive Modulus	57.4 GPa	8330 ksi	T300, Plain Weave; Fill Compression; Dry
	@Temperature 232 °C	@Temperature 450 °F	
	57.9 GPa	8400 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	58.6 GPa	8500 ksi	T300, Plain Weave; Fill Compression; Wet
	@Temperature 177 °C	@Temperature 351 °F	
	58.7 GPa	8510 ksi	T300, Plain Weave; Fill Compression
	@Temperature -59.0 °C	@Temperature -74.2 °F	
Shear Strength	37.9 MPa	5500 psi	T300, Plain Weave; Fill Short Beam; AMC
	@Temperature 232 °C	@Temperature 450 °F	
	43.41 MPa	6296 psi	T300, Plain Weave; Fill Short Beam; Wet
	@Temperature 177 °C	@Temperature 351 °F	
	51.68 MPa	7496 psi	T300, Plain Weave; Fill Short Beam; Dry
	@Temperature 232 °C	@Temperature 450 °F	
	94.41 MPa	13690 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	97.88 MPa	14200 psi	T300, Plain Weave; Fill Short Beam
	@Temperature -59.0 °C	@Temperature -74.2 °F	

Descriptive Properties	Value	Comments
Cured Thickness per Ply (cm)	0.013-0.015	Laminate
Dry Resin Content (%)	33-37	Prepreg
Fiber Volume (%)	54-59	Laminate

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