

Hexcel® HexPly® F650 Bismaleimide Resin with Quartz 581 fabric reinforcement

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Laminate Physicals: 55.4% Fiber volume, 31.4% Resin content, 0.7% Voids, 1.78% gm.cc Specific gravity Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F650-Bismaleimide-Resin-with-Quartz-581-fabric-reinforcement.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.78 g/cc	1.78 g/cc	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	433 MPa	62800 psi	
	@Temperature 232 °C	@Temperature 450 °F	
	459.2 MPa	66600 psi	
	@Temperature 177 °C	@Temperature 351 °F	
Tensile Modulus	531.6 MPa	77100 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	24.8 GPa	3600 ksi	
	@Temperature 177 °C	@Temperature 351 °F	
Compressive Yield Strength	26.9 GPa	3900 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	292.3 MPa	42390 psi	
	@Temperature 232 °C	@Temperature 450 °F	
Compressive Modulus	375.8 MPa	54510 psi	
	@Temperature 177 °C	@Temperature 351 °F	
	504.7 MPa	73200 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	26.5 GPa	3840 ksi	
	@Temperature 177 °C	@Temperature 351 °F	
	28.0 GPa	4060 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	42.1 MPa	6110 psi	

Shear Strength Mechanical Properties	Metric @ Temperature 232 °C	English @ Temperature 450 °F	Comments
	49.6 MPa	7190 psi	
	@Temperature 177 °C	@Temperature 351 °F	
	60.7 MPa	8800 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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