

Hexcel® HexPly® F650 Bismaleimide Resin with Fiberglass 7781 fabric reinforcement

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Laminate Physicals: 53% Fiber volume, 29% Resin content, 0.5% Voids
Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F650-Bismaleimide-Resin-with-Fiberglass-7781-fabric-reinforcement.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	342 MPa	49600 psi	
	@Temperature 177 °C	@Temperature 351 °F	
	355.8 MPa	51600 psi	
	@Temperature 232 °C	@Temperature 450 °F	
	418.5 MPa	60700 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	23.1 GPa	3350 ksi	
	@Temperature 232 °C	@Temperature 450 °F	
	25.5 GPa	3700 ksi	
	@Temperature 177 °C	@Temperature 351 °F	
	29.5 GPa	4280 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Yield Strength	219.9 MPa	31890 psi	Wet condition - 96 hours in boiling H2O
	@Temperature 232 °C	@Temperature 450 °F	
	319.2 MPa	46300 psi	Wet condition - 96 hours in boiling H2O
	@Temperature 177 °C	@Temperature 351 °F	
	541.2 MPa	78490 psi	
	@Temperature 232 °C	@Temperature 450 °F	
	541.9 MPa	78600 psi	
	@Temperature 177 °C	@Temperature 351 °F	
	637.8 MPa	92510 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	22.5 GPa	3260 ksi	Wet condition - 96 hours in boiling

Mechanical Properties	@Temperature 232 °C Metric	@Temperature 450 °F English	H2O Comments
	24.8 GPa	3600 ksi	Wet condition - 96 hours in boiling H2O
	@Temperature 177 °C	@Temperature 351 °F	
	27.8 GPa	4030 ksi	
	@Temperature 232 °C	@Temperature 450 °F	
	28.2 GPa	4090 ksi	
	@Temperature 177 °C	@Temperature 351 °F	
	31.1 GPa	4510 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Yield Strength	175.1 MPa	25400 psi	Wet condition - 96 hours in boiling H2O
	@Temperature 232 °C	@Temperature 450 °F	
	224.1 MPa	32500 psi	Wet condition - 96 hours in boiling H2O
	@Temperature 177 °C	@Temperature 351 °F	
	392.3 MPa	56900 psi	
	@Temperature 177 °C	@Temperature 351 °F	
	392.3 MPa	56900 psi	
	@Temperature 232 °C	@Temperature 450 °F	
	480.6 MPa	69710 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Modulus	23.1 GPa	3350 ksi	Wet condition - 96 hours in boiling H2O
	@Temperature 232 °C	@Temperature 450 °F	
	24.9 GPa	3610 ksi	Wet condition - 96 hours in boiling H2O
	@Temperature 177 °C	@Temperature 351 °F	
	28.0 GPa	4060 ksi	
	@Temperature 177 °C	@Temperature 351 °F	
	28.1 GPa	4080 ksi	
	@Temperature 232 °C	@Temperature 450 °F	
	31.4 GPa	4550 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shear Strength	14.2 MPa	2060 psi	Short Beam Shear, Wet condition - 96 hours in boiling H2O
	@Temperature 232 °C	@Temperature 450 °F	

Mechanical Properties	Metric	English	Comments
	15.8 MPa @Temperature 177 °C	2280 psi @Temperature 351 °F	Short Beam Shear, Wet condition - 96 hours in boiling H ₂ O
	39.4 MPa @Temperature 232 °C	5710 psi @Temperature 450 °F	Short Beam Shear
	53.1 MPa @Temperature 23.0 °C	7700 psi @Temperature 73.4 °F	
	53.4 MPa @Temperature 177 °C	7750 psi @Temperature 351 °F	Short Beam Shear

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