

Hexcel® HexPly® F650 Bismaleimide Resin with T300 Fiber

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Thermal Aging at 232°C; Composition T300 Fiber, 6K, UD Tape - 148 g/m²; Laminate Physicals: 32.7% Resin content, 60.0% Fiber
volume information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F650-Bismaleimide-Resin-with-T300-Fiber.php

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	1124 MPa	163000 psi	Control (Prepreg with no freezer or out time exposure)
	@Temperature 232 °C	@Temperature 450 °F	
	1151 MPa	166900 psi	1608 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	1427 MPa	207000 psi	424 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	1427 MPa	207000 psi	804 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	1482 MPa	214900 psi	1255 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	1489 MPa	216000 psi	1608 Hrs
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1538 MPa	223100 psi	2010 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	1606 MPa	232900 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1737 MPa	251900 psi	1255 Hrs
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1744 MPa	252900 psi	424 Hrs, Room temperature
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1793 MPa	260100 psi	2010 Hrs
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1827 MPa	265000 psi	804 Hrs

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Flexural Modulus	121 GPa	17500 ksi	Control (Prepreg with no freezer or out time exposure)
	@Temperature 232 °C	@Temperature 450 °F	
	123 GPa	17800 ksi	1255 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	123 GPa	17800 ksi	1608 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	123 GPa	17800 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	125 GPa	18100 ksi	804 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	126 GPa	18300 ksi	424 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	126 GPa	18300 ksi	1608 Hrs
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	126 GPa	18300 ksi	2010 Hrs
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	128 GPa	18600 ksi	1255 Hrs
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	130 GPa	18900 ksi	804 Hrs
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	132 GPa	19100 ksi	424 Hrs
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	145 GPa	21000 ksi	2010 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
Shear Strength	52.0 MPa	7540 psi	Short Beam; Control (Prepreg with no freezer or out time exposure)
	@Temperature 232 °C	@Temperature 450 °F	
	66.0 MPa	9570 psi	Short Beam; 1255 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	68.9 MPa	9990 psi	Short Beam; 804 Hrs
	@Temperature 232 °C	@Temperature 450 °F	

Mechanical Properties	Metric	English	Comments
	71.7 MPa	10400 psi	Short Beam; 424 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	76.5 MPa	11100 psi	Short Beam; 1608 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	76.5 MPa	11100 psi	Short Beam; 2010 Hrs
	@Temperature 232 °C	@Temperature 450 °F	
	101 MPa	14600 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	101 MPa	14600 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	103 MPa	14900 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	110 MPa	16000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	111 MPa	16100 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	112 MPa	16200 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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