

Hexcel® HexPly® F650 Bismaleimide Resin with Graphite F3T584 fabric reinforcement

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Aging Data, (T300-3K, 8 H.S.); Laminate Physicals: 59.6% Fiber volume, 34.0% Resin content, 1.0% Voids
Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-F650-Bismaleimide-Resin-with-Graphite-F3T584-fabric-reinforcement.php

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	655 MPa	95000 psi	Control (Prepreg with no freezer or out time exposure)
	@Temperature 232 °C	@Temperature 450 °F	
	710 MPa	103000 psi	Phase V (Prepreg stored in freezer 1 year at -9°C and exposed to 60 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	731 MPa	106000 psi	Phase I (Prepreg stored in freezer 4 months at -9°C and exposed to 30 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	758 MPa	110000 psi	Phase II (Prepreg stored in freezer 4 months at -9°C and exposed to 60 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	814 MPa	118000 psi	Phase III (Prepreg stored in freezer 6 months at -9°C and exposed to 60 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	827 MPa	120000 psi	Phase IV (Prepreg stored in freezer 1 year at -9°C and exposed to 30 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	862 MPa	125000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	869 MPa	126000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	876 MPa	127000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	889 MPa	129000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	903 MPa	131000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	924 MPa	134000 psi	

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Compressive Yield Strength	469 MPa	68000 psi	Phase II (Prepreg stored in freezer 4 months at -9°C and exposed to 60 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	474 MPa	68700 psi	Phase V (Prepreg stored in freezer 1 year at -9°C and exposed to 60 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	481 MPa	69800 psi	Phase III (Prepreg stored in freezer 6 months at -9°C and exposed to 60 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	499 MPa	72400 psi	Phase IV (Prepreg stored in freezer 1 year at -9°C and exposed to 30 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	532 MPa	77200 psi	Phase I (Prepreg stored in freezer 4 months at -9°C and exposed to 30 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	558 MPa	80900 psi	Control (Prepreg with no freezer or out time exposure)
	@Temperature 232 °C	@Temperature 450 °F	
	606 MPa	87900 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	623 MPa	90400 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	703 MPa	102000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	710 MPa	103000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	731 MPa	106000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	738 MPa	107000 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shear Strength	44.3 MPa	6430 psi	Short Beam; Phase II (Prepreg stored in freezer 4 months at -9°C and exposed to 60 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	45.9 MPa	6660 psi	Short Beam; Phase IV (Prepreg stored in freezer 1 year at -9°C and exposed to 30 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	46.1 MPa	6690 psi	Short Beam; Phase I (Prepreg stored in freezer 4 months at -9°C and exposed to 30 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 232 °C	@Temperature 450 °F	Short Beam; Phase V (Prepreg stored in freezer 1 year at -9°C and exposed to 60 days at RT)
	49.6 MPa	7190 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	51.1 MPa	7410 psi	Short Beam; Phase III (Prepreg stored in freezer 6 months at -9°C and exposed to 60 days at RT)
	@Temperature 232 °C	@Temperature 450 °F	
	51.7 MPa	7500 psi	Short Beam; Control (Prepreg with no freezer or out time exposure)
	@Temperature 232 °C	@Temperature 450 °F	
	55.2 MPa	8010 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	56.5 MPa	8190 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	60.7 MPa	8800 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	64.1 MPa	9300 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	68.7 MPa	9960 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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