

Hexcel® HexPly® 8551-7 Epoxy Matrix

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin

Material Notes:

HexPly® 8551-7 is an amine-cured, toughened epoxy resin system supplied with unidirectional graphite fibers. Typical reinforcement is continuous IM7 (intermediate modulus) graphite filaments. HexPly® 8551-7 was developed to operate in a temperature environment of up to 200°F (93°C). IM7/8551-7 is an extremely damage-resistant system, recommended for structural applications requiring high strength, stiffness, and damage tolerance. Conventional thermoset resin processing equipment and techniques can be used to process IM7/8551-7 prepreg tape. Features: Service temperature up to 200°F (93°C), Extremely damage-resistant system, 350°F (177°C)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexPly-8551-7-Epoxy-Matrix.php

Physical Properties	Metric	English	Comments
Density	1.272 g/cc	0.04595 lb/in ³	
Moisture Absorption at Equilibrium	3.1 %	3.1 %	
Viscosity	1900 cP	1900 cP	
	@Temperature 129 - 149 °C	@Temperature 264 - 300 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	99.3 MPa	14400 psi	
Elongation at Yield	4.4 %	4.4 %	
Tensile Modulus	4.09 GPa	593 ksi	
Fracture Toughness	3.51 MPa-m ^{1/2}	3.19 ksi-in ^{1/2}	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	93.3 °C	200 °F	
Glass Transition Temp, Tg	116 °C	241 °F	Wet
	157 °C	315 °F	Dry

Processing Properties	Metric	English	Comments
Gel Time	8.00 - 16.0 min	8.00 - 16.0 min	
	@Temperature 177 °C	@Temperature 351 °F	

Descriptive Properties	Value	Comments
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Tack Life (days) Descriptive Properties	40 Value	Comments
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