

Quantum Composites HTC-9500 55% E-Glass Fiber Reinforced Bismaleimide SMC, High Temperature Composite

Category : Polymer , Thermoset , Composite SMC , Polyimide, TS

Material Notes:

HTC-9500 (127-51-6) is an E-Glass Fiber reinforced Bismaleimide (BMI) ESC (Engineered Structural Composite) molding compound. It exhibits outstanding elevated temperature characteristics providing greatly extended service temperature range versus epoxy compounds for compression molding applications. Form = Rolled Sheet Color = Natural Glass Fiber Content = 55% nominal Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-HTC-9500-55-E-Glass-Fiber-Reinforced-Bismaleimide-SMC-High-Temperature-Composite.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.82 g/cc	1.82 g/cc	ASTM D792
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	196 MPa	28400 psi	ASTM D638
Tensile Modulus	33.8 GPa	4900 ksi	ASTM D638
Flexural Strength	648 MPa	94000 psi	ASTM D790
Flexural Modulus	27.6 GPa	4000 ksi	ASTM D790

Processing Properties	Metric	English	Comments
Shelf Life	1.00 Month	1.00 Month	
	@Temperature 4.44 °C	@Temperature 40.0 °F	
	6.00 Month	6.00 Month	
	@Temperature -12.2 °C	@Temperature 10.0 °F	

Descriptive Properties	Value	Comments
Fiber Length (in)	1	E-Glass, nominal

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