

Quantum Composites HTC-9590 55% Carbon Fiber Reinforced Bismaleimide SMC, High Temperature Composite

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Composite SMC , Polyimide, TS

Material Notes:

HTC-9590 (127-51-3) is a 12K Pan Based Carbon 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 = Roll Sheet Color = Natural (Black) Carbon Fiber Content = 55% nominal Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-HTC-9590-55-Carbon-Fiber-Reinforced-Bismaleimide-SMC-High-Temperature-Composite.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	ASTM D792
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	131 MPa	19000 psi	ASTM D638
Tensile Modulus	48.3 GPa	7010 ksi	ASTM D638
Flexural Strength	496 MPa	71900 psi	ASTM D790
Flexural Modulus	48.3 GPa	7010 ksi	ASTM D790
Izod Impact, Notched	14.41 J/cm	27.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	341 °C	646 °F	wet; ASTM D4065
	379 °C	714 °F	dry; ASTM D4065

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
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Fiber Length (in) Descriptive Properties	Value	Carbon nominal Comments
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