

Quantum Composites HTC-9593 55% Carbon Fiber Reinforced Bismaleimide SMC, High Temperature Composite

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

Material Notes:

HTC-9593 (127-51-5) is a 3K 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 = Rolled 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-9593-55-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	

Mechanical Properties	Metric	English	Comments
Tensile Strength	179 MPa	26000 psi	ASTM D638
Tensile Modulus	62.1 GPa	9010 ksi	ASTM D638
Flexural Strength	517 MPa	75000 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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