

## Quantum Composites AMC™ 8593 NT 50% Carbon Fiber Reinforced SMC

Category : Polymer , Thermoset , Composite SMC , Epoxy , Epoxy/Carbon Fiber Composite

### Material Notes:

AMC™ 8593 NT is a chopped carbon fiber reinforced engineered structural composite molding compound. It is easily moldable and provides parts that are high strength, fatigue resistant, with high heat resistance and a low density. The carbon fiber is a standard modulus PAN based 3K tow. Form = Rolled Sheet Color = Black or Natural Carbon Fiber Content = Nominal - 50% w/w Resin Content = Nominal 50% w/w Information provided by Quantum Composites.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Quantum-Composites-AMC-8593-NT-50-Carbon-Fiber-Reinforced-SMC.php](http://www.lookpolymers.com/polymer_Quantum-Composites-AMC-8593-NT-50-Carbon-Fiber-Reinforced-SMC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ASTM D792
Linear Mold Shrinkage	<= 0.00 cm/cm	<= 0.00 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	421 MPa	61100 psi	ASTM D638
Flexural Strength	792 MPa	115000 psi	ASTM D790
Flexural Modulus	44.7 GPa	6480 ksi	ASTM D790
Izod Impact, Notched	10.68 J/cm	20.01 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	287 °C	549 °F	Deflection Temperature, Load not specified; ASTM D648
Glass Transition Temp, Tg	118 °C	244 °F	ASTM D4065

Processing Properties	Metric	English	Comments
Processing Temperature	127 - 154 °C	260 - 310 °F	Compression Molding
Cure Time	5.00 - 10.0 min @Temperature 138 °C	0.0833 - 0.167 hour @Temperature 280 °F	
Shelf Life	2.00 Month @Temperature 23.9 °C	2.00 Month @Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Fiber Length (in)	1	Carbon, nominal

## **Contact Songhan Plastic Technology Co.,Ltd.**

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