

## Quantum Composites AMC™ 8592 55% Carbon Fiber Reinforced SMC

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

### Material Notes:

AMC™ 8592 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 PAN based 12K tow. Form = Rolled, Festooned Sheet Carbon Fiber Content = 55% nominal Information provided by Quantum Composites.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Quantum-Composites-AMC-8592-55-Carbon-Fiber-Reinforced-SMC.php](http://www.lookpolymers.com/polymer_Quantum-Composites-AMC-8592-55-Carbon-Fiber-Reinforced-SMC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Linear Mold Shrinkage	<= 0.00 cm/cm	<= 0.00 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	338 MPa	49000 psi	ASTM D638
Flexural Strength	778 MPa	113000 psi	ASTM D790
Flexural Modulus	43.0 GPa	6240 ksi	ASTM D790
Izod Impact, Notched	11.5 J/cm	21.5 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	DMA

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)	2	Carbon, nominal

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

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**