

Quantum Composites AMC™ 8595 55% Carbon Fiber Reinforced Vinyl Ester SMC

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Composite SMC , Vinyl Ester , Vinyl Ester Sheet Molding Compound

Material Notes:

AMC™ 8595 is a vinyl ester engineered structural composite molding compound with continuous, unidirectional carbon fibers. It is designed for compression molding of components requiring high structural strength, light weight, and stiffness. It can also be co-molded with other ESC molding compounds such as AMC™ 8590 to provide stiffening in selected areas of the component. Form = Rolled Sheet Color = Natural, Black Carbon Fiber Content = 55% nominal Carbon Fiber Length = Continuous Areal Weight = 1129 g/m² Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-AMC-8595-55-Carbon-Fiber-Reinforced-Vinyl-Ester-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Water Absorption	0.11 %	0.11 %	ASTM D570
Linear Mold Shrinkage	0.00 cm/cm	0.00 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	993 MPa	144000 psi	ASTM D638
Tensile Modulus	94.5 GPa	13700 ksi	ASTM D638
Flexural Strength	1310 MPa	190000 psi	ASTM D790
Flexural Modulus	77.9 GPa	11300 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	287 °C	549 °F	Deflection Temperature, Load not specified; ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	132 - 149 °C @Thickness 12.7 mm	270 - 300 °F @Thickness 0.500 in	Compression Molding
Clamp Pressure	2.07 - 6.89 MPa	300 - 1000 psi	
Cure Time	3.00 - 5.00 min @Thickness 6.35 mm, Temperature 138 °C	0.0500 - 0.0833 hour @Thickness 0.250 in, Temperature 280 °F	
	3.00 Month	3.00 Month	

Shelf Life	Metric	English	Comments
Processing Properties	@ Temperature 23.9 °C	@ Temperature 75.0 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China