

Quantum Composites AMC™ 2593 45% Carbon Fiber Reinforced Phenolic SMC

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

Material Notes:

AMC™ 2593 (126-40-139) is a carbon fiber reinforced phenolic engineered structural composite molding compound. The carbon fiber is PAN based 3K standard modulus tow. It exhibits outstanding low flow flammability characteristics. AMC™ 2593 (126-40-139) is recommended for applications such as aircraft interior and public transportation components requiring composite materials having very low flammability, low smoke, and minimal generation of toxic gases. Form = Rolled Sheet Color = Black or Natural Carbon Fiber Content = Nominal - 45% Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-AMC-2593-45-Carbon-Fiber-Reinforced-Phenolic-SMC.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	258 MPa	37400 psi	ASTM D638
Tensile Modulus	62.0 GPa	8990 ksi	ASTM D638
Flexural Strength	521 MPa	75600 psi	ASTM D790
Flexural Modulus	44.8 GPa	6500 ksi	ASTM D790
Izod Impact, Notched	12.81 J/cm	24.00 ft-lb/in	ASTM D256

Processing Properties	Metric	English	Comments
Shelf Life	2.00 Month	2.00 Month	
	@Temperature 4.44 °C	@Temperature 40.0 °F	
	6.00 Month	6.00 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fiber Length (in)	1	Carbon, nominal
Flammability	0 seconds, 1.4 inches	FAA Vertical Burn (60 sec)
	18 (2 min), 59 (peak)	OSU Heat Release kW/m ² , 0.080"
Smoke Density Ds	2	BSS7238

Toxicity of Gases
Descriptive Properties

Pass
Value

BSS7239
Comments

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