

AMC 8590

Vinyl Ester
Quantum Composites Inc.

Message:

AMC® 8590 is a chopped carbon fiber reinforced sheet molding compound (SMC) in a toughness vinyl ester matrix. 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.

General Information			
Filler / Reinforcement	Carbon Fiber,55% Filler by Weight		
Features	High Heat Resistance		
	High Strength		
Appearance	Black		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	55200	MPa	ASTM D638
Tensile Strength	283	MPa	ASTM D638
Flexural Modulus	38600	MPa	ASTM D790
Flexural Strength	607	MPa	ASTM D790
Compressive Modulus	33800	MPa	ASTM D695
Compressive Strength	286	MPa	ASTM D695
Poisson's Ratio	0.31		ASTM E132
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	288	°C	ASTM D648
Glass Transition Temperature	118	°C	ASTM E1356
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	8.7	wk	
Demold Time (138°C)	5.0 to 10	min	
Injection	Nominal Value	Unit	
Mold Temperature	127 to 154	°C	

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Recommended distributors for this material

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