

AMC 8595

Vinyl Ester
Quantum Composites Inc.

Message:

AMC-8595 is reinforced 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.

General Information			
Filler / Reinforcement	Carbon Fiber,50% Filler by Weight		
Features	Good Moldability		
	Good Stiffness		
	High Strength		
	Low Molecular Weight		
Appearance	Black		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.0	%	ASTM D955
Water Absorption (24 hr)	0.11	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	58600	MPa	ASTM D790
Flexural Strength	1030	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	149	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	8.7	wk	
Post Cure Time (138°C)	0.050 to 0.083	hr	
Injection	Nominal Value	Unit	
Mold Temperature	132 to 149	°C	
Injection Pressure	2.07 to 6.89	MPa	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

