

## Quantum Composites QC-8704FR 63% Glass Fiber Flame Retardant Vinyl Ester SMC (discontinued \*\*)

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Vinyl Ester , Vinyl Ester Sheet Molding Compound

### Material Notes:

QC-8704FR is a vinyl ester-based epoxy sheet molding compound (SMC) designed for compression and transfer molding of components requiring high structural strength. It exhibits unusual toughness, and is suggested for applications subject to impacts and rough handling.

QC-8704FR is also suggested for applications requiring excellent fatigue resistance. It incorporates short glass fibers for easy flow. Form and Color = Rolled Sheet, Black. Glass Fiber Length = .25 inch. Data provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Quantum-Composites-QC-8704FR-63-Glass-Fiber-Flame-Retardant-Vinyl-Ester-SMC-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Quantum-Composites-QC-8704FR-63-Glass-Fiber-Flame-Retardant-Vinyl-Ester-SMC-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.35 %	0.35 %	24 Hrs. ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	65	65	ASTM D2583
Tensile Strength, Ultimate	275 MPa	39900 psi	ASTM D638
Flexural Yield Strength	413 MPa	59900 psi	ASTM D790
Flexural Modulus	17.2 GPa	2490 ksi	ASTM D790
Izod Impact, Notched	15.0 J/cm	28.1 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 2.50 mm	@Thickness 0.0984 in	
Shrinkage	0.0010 %	0.0010 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	ASTM D257
Surface Resistance	3.00e+14 ohm	3.00e+14 ohm	ASTM D257
Dielectric Constant	4.7	4.7	ASTM D150
Dielectric Strength	15.0 kV/mm	381 kV/in	ASTM D149
Dissipation Factor			ASTM D150

Electrical Properties	0.0090 Metric	0.0090 English	Comments
Arc Resistance	134 sec	134 sec	ASTM D495

Processing Properties	Metric	English	Comments
Processing Temperature	132 - 149 °C	270 - 300 °F	Mold temperature

## Contact Songhan Plastic Technology Co.,Ltd.

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