

# Quantum Composites QC-8704

Vinyl Ester

Quantum Composites Inc.

## Message:

QC-8704 is a vinyl ester based 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-8704 is also suggested for applications requiring excellent fatigue resistance. It incorporates short glass fibers for easy flow.

General Information			
Filler / Reinforcement	Glass Fiber,63% Filler by Weight		
Features	Fatigue Resistant Good Flow Good Impact Resistance Good Toughness High Strength		
Appearance	Black Grey		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.90	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	0.35	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	65		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	276	MPa	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	414	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1500	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+14	ohms	ASTM D257
Volume Resistivity	5.0E+14	ohms · cm	ASTM D257
Dielectric Strength	15	kV/mm	ASTM D149
Dielectric Constant	4.70		ASTM D150
Dissipation Factor	9.0E-3		ASTM D150
Arc Resistance	134	sec	ASTM D495
Thermoset	Nominal Value	Unit	

Shelf Life (24°C)	8.7	wk
Demold Time (138°C)	3.0 to 5.0	min

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### Recommended distributors for this material

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