

# Quantum Composites QC-8800 FR

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8800 FR is a vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength and flame resistance. It exhibits unusual toughness, and is suggested for applications subject to impacts and rough handling. QC-8800 FR is also suggested for applications requiring excellent fatigue resistance.

General Information			
Filler / Reinforcement	Glass Fiber,58% Filler by Weight		
Additive	Flame Retardant		
Features	Fatigue Resistant		
	Flame Retardant		
	Good Impact Resistance		
	Good Toughness		
	High Strength		
Appearance	Black		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.93	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.0	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	345	MPa	ASTM D638
Flexural Modulus	18600	MPa	ASTM D790
Flexural Strength	538	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1900	J/m	ASTM D256
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm)	V-0		UL 94
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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