

# Quantum Composites QC-8700

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8700 is a vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength. It exhibits unusual toughness, and is suggested for applications subject to impacts and rough handling. QC-8700 is also suggested for applications requiring excellent fatigue resistance. It exhibits better temperature resistance than QC-8800.

General Information			
Filler / Reinforcement	Glass Fiber,63% Filler by Weight		
Features	Fatigue Resistant		
	Good Impact Resistance		
	Good Toughness		
	High Heat Resistance		
	High Strength		
Appearance	Black		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.87	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	68		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	26900	MPa	ASTM D638
Tensile Strength	359	MPa	ASTM D638
Flexural Modulus	20700	MPa	ASTM D790
Flexural Strength	634	MPa	ASTM D790
Poisson's Ratio	0.38		ASTM E132
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1800	J/m	ASTM D256
Thermoset	Nominal Value	Unit	
Shelf Life (21°C)	8.7	wk	
Demold Time (138°C)	3.0 to 5.0	min	
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

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