

# Quantum Composites QC-8805

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8805 is a vinyl ester based sheet molding compound (SMC) reinforced with continuous, unidirectional (0°) glass fibers. It provides high strength, stiffness, and fatigue resistance in the fiber direction, and can be used to selectively reinforce QC-8800 and other materials.

General Information			
Filler / Reinforcement	Glass Fiber,66% Filler by Weight		
Features	Fatigue Resistant		
	Good Stiffness		
	High Strength		
Appearance	Black		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.95	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	68		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	621	MPa	ASTM D638
Flexural Modulus	41400	MPa	ASTM D790
Flexural Strength	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	3700	J/m	ASTM D256
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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