

# Quantum Composites QC-8804

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8804 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-8804 is also suggested for applications requiring excellent fatigue resistance. It incorporates short glass fibers for ease of transfer molding.

General Information			
Filler / Reinforcement	Glass Fiber,62% Filler by Weight		
Features	Fatigue Resistant		
	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	1.90	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	296	MPa	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength	448	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1500	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	199	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms · cm	ASTM D257
Dielectric Strength	12	kV/mm	ASTM D149
Arc Resistance	130	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

