

# Quantum Composites QC-8744FR

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8744FR is a low-density vinyl ester based sheet molding compound (SMC). It is designed for compression molding of components requiring structural strength, corrosion resistance and temperature resistance combined with low molded density. It is highly flame retarded to meet critical requirements at low wall thickness.

General Information			
Filler / Reinforcement	Glass Fiber,37% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Corrosion Resistance		
	High Heat Resistance		
	High Strength		
Appearance	Black		
	Grey		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.050	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	138	MPa	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	221	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	800	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 (149°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

