

Quantum Composites QC-8704

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8704 is a vinyl ester based sheet molding compound (SMC) designed for compression and transfer molding of components requiring high structural strength. It exhibits unusual toughness, and is suggested for applications subject to impacts and rough handling. QC-8704 is also suggested for applications requiring excellent fatigue resistance. It incorporates short glass fibers for easy flow.

General Information			
Filler / Reinforcement	Glass Fiber,63% Filler by Weight		
Features	Fatigue Resistant		
	Good Flow		
	Good Impact Resistance		
	Good Toughness		
	High Strength		
Appearance	Black		
	Grey		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.90	g/cm ³	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	276	MPa	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	414	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1500	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+14	ohms	ASTM D257
Volume Resistivity	5.0E+14	ohms · cm	ASTM D257
Dielectric Strength	15	kV/mm	ASTM D149
Dielectric Constant	4.70		ASTM D150
Dissipation Factor	9.0E-3		ASTM D150
Arc Resistance	134	sec	ASTM D495
Thermoset	Nominal Value	Unit	

Shelf Life (24°C)	8.7	wk
Demold Time (138°C)	3.0 to 5.0	min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

