

Quantum Composites QC-8740

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8740 is a vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring toughness and flame retardance. It meets the requirements for a number of commercial and military specifications.

General Information			
Filler / Reinforcement	Glass Fiber,37% Filler by Weight		
Features	Flame Retardant		
	Good Toughness		
Appearance	Black		
	Matte Finish		
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)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	214	MPa	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength	379	MPa	ASTM D790
Compressive Strength	310	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1600	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	149	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	8.7	wk	
Demold Time (149°C)	2.0 to 4.0	min	
Injection	Nominal Value	Unit	
Mold Temperature	132 to 149	°C	
Injection Pressure	2.07 to 6.89	MPa	

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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

