

Quantum Composites QC-8151C

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8151C is a vinyl ester sheet molding compound (SMC) designed for compression molding components requiring dimensional stability, resistance to high temperatures plus sufficient electrical conductivity to dissipate static charge. It also offers excellent chemical resistance, light weight, low heat absorption and high strength at both room and elevated temperatures. This electrical conductivity is built into and throughout the composite. It is designed to mold and cure at lower temperatures than QC-8150C.

General Information			
Filler / Reinforcement	Glass Fiber,55% Filler by Weight		
Features	Electrically Conductive		
	Good Chemical Resistance		
	Good Dimensional Stability		
	High Heat Resistance		
	High Strength		
Appearance	Grey		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.020	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	207	MPa	ASTM D638
Flexural Modulus	15200	MPa	ASTM D790
Flexural Strength	345	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1300	J/m	ASTM D256
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	4.3	wk	

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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



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