

Quantum Composites QC-8300

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8300 is a vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength and corrosion resistance. It is urethane-thickened, and can provide fast molding cycles.

General Information			
Filler / Reinforcement	Glass Fiber,64% Filler by Weight		
Features	Fast Molding Cycle		
	Good Corrosion Resistance		
	High Strength		
Appearance	Black		
	Natural Color		
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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	310	MPa	ASTM D638
Flexural Modulus	20700	MPa	ASTM D790
Flexural Strength	621	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	165	°C	ASTM E1356
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	8.7	wk	
Demold Time (135°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



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