

Quantum Composites QC-8100

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8100 is a vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength and corrosion resistance.

General Information			
Filler / Reinforcement	Glass Fiber,60% Filler by Weight		
Features	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	1.75	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	214	MPa	ASTM D638
Flexural Modulus	15900	MPa	ASTM D790
Flexural Strength	414	MPa	ASTM D790
Compressive Strength	247	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1600	J/m	ASTM D256
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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