

Quantum Composites QC-8144

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8144 is a low-density (0.043 lb/in³) vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength, corrosion resistance and temperature resistance combined with low molded density.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Corrosion Resistance		
	High Heat Resistance		
	High Strength		
Appearance	Grey		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	0.13	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	117	MPa	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	179	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1100	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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