

Quantum Composites QC-8800

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8800 is a vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength. It exhibits unusual toughness, and is suggested for applications subject to impacts and rough handling. QC-8800 is also suggested for applications requiring excellent fatigue resistance.

General Information			
Filler / Reinforcement	Glass Fiber,63% Filler by Weight		
Features	Fatigue Resistant		
	Good Impact Resistance		
	Good Toughness		
Appearance	Black		
	Colors Available		
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	0.0	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	70		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	26200	MPa	ASTM D638
Tensile Strength	345	MPa	ASTM D638
Flexural Modulus	20700	MPa	ASTM D790
Flexural Strength	586	MPa	ASTM D790
Compressive Modulus	18600	MPa	ASTM D695
Compressive Strength	290	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1900	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
CLTE - Flow	1.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms · cm	ASTM D257
Dielectric Strength	12	kV/mm	ASTM D149

Arc Resistance	129	sec	ASTM D495
Thermoset	Nominal Value	Unit	
Shelf Life			
4°C	52	wk	
24°C	8.7	wk	
Demold Time (138°C)	3.0 to 5.0	min	
Injection	Nominal Value	Unit	
Mold Temperature	132 to 149	°C	
Injection Pressure	1.38 to 6.89	MPa	

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