

Quantum Composites QC-8770

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8770 is a hybrid vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength. It exhibits unusual toughness, and excellent stiffness, and is suggested for applications subject to impacts and rough handling. QC-8770 is also suggested for applications requiring excellent fatigue resistance. It offers higher temperature capability than QC-8800.

General Information			
Filler / Reinforcement	Glass Fiber,63% Filler by Weight		
Features	Fatigue Resistant Good Impact Resistance Good Stiffness Good Toughness High Strength		
Appearance	Black Grey		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.85	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.0	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	24100	MPa	ASTM D638
Tensile Strength	345	MPa	ASTM D638
Flexural Modulus	20000	MPa	ASTM D790
Flexural Strength	552	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1900	J/m	ASTM D256
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	4.3	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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