

Quantum Composites QC-8777

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8777 is a low-density 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 reinforced material, 41% filler by weight		
Features	High strength		
	Good corrosion resistance		
	Heat resistance, high		
Appearance	Black		
Forms	SMC-Sheet Molding Compound		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	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	105	MPa	ASTM D638
Flexural Modulus	11400	MPa	ASTM D790
Flexural Strength	234	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	960	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	250	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	4.3	wk	
Demold Time (149°C)	3.0 - 5.0	min	
Additional Information			
Water Absorption, 1000 hr, 50°C: 1.2%Flammability, FMVSS 302-75: Self Ext.			
Injection	Nominal Value	Unit	
Mold Temperature	132 - 160	°C	
Injection Pressure	2.07 - 6.89	MPa	

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