

Quantum Composites QC-8560

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8560 is a vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength. It maintains excellent mechanical properties at temperatures above 125°C, and will withstand short term exposures at over 300°C.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 60% filler by weight		
Features	High strength		
Appearance	Black		
	Grey		
	Green		
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	0.10	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	26900	MPa	ASTM D638
Tensile Strength	262	MPa	ASTM D638
Flexural Modulus			ASTM D790
--	17900	MPa	ASTM D790
116°C	16200	MPa	ASTM D790
Flexural Strength			ASTM D790
--	427	MPa	ASTM D790
116°C	366	MPa	ASTM D790
Compressive Modulus	17200	MPa	ASTM D695
Compressive Strength	386	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	160	°C	ASTM E1356
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	8.7	wk	
Demold Time (135°C)	3.0 - 5.0	min	
Additional Information			
The value listed as Glass Transition Temp, ASTM E1356, was tested in accordance with ASTM D4065			

Injection	Nominal Value	Unit
Mold Temperature	132 - 149	°C
Injection Pressure	2.07 - 6.89	MPa

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