

Quantum Composites QC-8565

Vinyl Ester

Quantum Composites Inc.

Message:

QC-8565 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,65% Filler by Weight		
Features	High Strength		
Appearance	Black		
	Green		
	Grey		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.95	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	43400	MPa	ASTM D638
Tensile Strength	689	MPa	ASTM D638
Flexural Modulus	41400	MPa	ASTM D790
Flexural Strength	1030	MPa	ASTM D790
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 to 5.0	min	

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