

# Quantum Composites QC-8150C

Vinyl Ester

Quantum Composites Inc.

## Message:

QC-8150C is a vinyl ester sheet molding compound (SMC) designed for compression molding components requiring dimensional stability, resistance to high temperatures plus sufficient electrical conductivity to dissipate static charge. It also offers excellent chemical resistance, light weight, low heat absorption and high strength at both room and elevated temperatures. This electrical conductivity is built into and throughout the composite.

General Information			
Filler / Reinforcement	Glass Fiber,55% Filler by Weight		
Features	Electrically Conductive Good Chemical Resistance Good Dimensional Stability High Heat Resistance High Strength		
Appearance	Grey Off-White		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.020	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	60		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	207	MPa	ASTM D638
Flexural Modulus	15200	MPa	ASTM D790
Flexural Strength	345	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1300	J/m	ASTM D256
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	4.3	wk	
Demold Time (149°C)	3.0 to 5.0	min	

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