

# Quantum Composites QC-8500

Vinyl Ester

Quantum Composites Inc.

Message:

Quantum Composites QC-8500 is a Vinyl Ester product filled with 65% glass fiber. It can be processed by compression molding and is available in North America. Primary characteristic: high strength.

General Information			
Filler / Reinforcement	Glass Fiber,65% Filler by Weight		
Features	High Strength		
Appearance	Black		
	Grey		
	Natural Color		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.90	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	345	MPa	ASTM D638
Flexural Modulus	20000	MPa	ASTM D790
Flexural Strength	586	MPa	ASTM D790
Compressive Strength	310	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1700	J/m	ASTM D256
Unnotched Izod Impact	2800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	150	°C	ASTM E1356
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	14	kV/mm	ASTM D149
Arc Resistance	130	sec	ASTM D495
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	8.7	wk	
Post Cure Time (135°C)	0.050 to 0.083	hr	
Injection	Nominal Value	Unit	
Mold Temperature	132 to 149	°C	
Injection Pressure	2.07 to 6.89	MPa	

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