

Quantum Composites QC-3100

Vinyl Ester

Quantum Composites Inc.

Message:

QC-3100 is a high strength vinyl ester sheet molding compound (SMC) that combines unusually good resistance to high temperatures with excellent corrosion resistance.

General Information			
Filler / Reinforcement	Glass Fiber,60% Filler by Weight		
Features	Fast Cure		
	Good Corrosion Resistance		
	Good Thermal Stability		
	High Heat Resistance		
Appearance	Black		
	Natural Color		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	ASTM D792
Apparent Density	1.85	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.10	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	75		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	248	MPa	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	393	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1600	J/m	ASTM D256
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	8.7	wk	
Demold Time	5.0	min	
Post Cure Time (177°C)	2.0	hr	

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