

# Quantum Composites QC-7810

Thermoset Polyester  
Quantum Composites Inc.

Message:

QC-7810 is a toughened thermoset polyester-based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength and flame resistance. It is suggested for applications subject to impacts and rough handling. QC-7810 has Underwriter's Laboratory recognition for 130°C use.

General Information			
Filler / Reinforcement	Glass Fiber,57% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Impact Resistance		
	High Strength		
Appearance	Black		
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
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	68		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	324	MPa	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	483	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1700	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (2.92 mm)	V-1		UL 94
Thermoset	Nominal Value	Unit	
Shelf Life (24°C)	8.7	wk	

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