

Quantum Composites QPC-1977

Thermoset Polyester
Quantum Composites Inc.

Message:

QPC-1977 is a modified polyester sheet molding compound (SMC) that is designed for applications requiring high strength, fire retardance, and resistance to elevated temperatures. It offers fast molding cycles and good surface appearance.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Fast Molding Cycle		
	Flame Retardant		
	Good Surface Finish		
	High Heat Resistance		
	High Strength		
Appearance	Grey		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.74	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.050	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	58		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	221	MPa	ASTM D638
Flexural Modulus	15900	MPa	ASTM D790
Flexural Strength	400	MPa	ASTM D790
Compressive Strength	172	MPa	ASTM D695
Shear Modulus	4480	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1600	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	127	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Shelf Life			
4°C	26	wk	
24°C	4.3	wk	
Demold Time (143°C)	1.3	min	
Injection	Nominal Value	Unit	

Mold Temperature	132 to 157	°C
Injection Pressure	2.76 to 8.27	MPa

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