

# BMC 501E

Thermoset Polyester

Bulk Molding Compounds, Inc.

## Message:

BMC 501E molding compound is a mineral filled, glass-fiber-reinforced polyester compound suitable for compression and transfer molding. It is a product with good overall electrical properties, flame resistance, and low water absorption. Distinguished from other materials by its very soft flow, it is an excellent compound for encapsulating delicate components. Typical applications include coil and solenoid Encapsulation. BMC 501E molding compound is produced in extruded form in a range on industrial colors. Because of the soft consistency of this product, it is only available in logs from 3 inches to 12 inches in length and from 1" to 2 ½" in diameter. Within this range, smaller diameters are supplied as multiple extrusions.

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	Flame Retardant		
	Good Electrical Properties		
	Low to No Water Absorption		
Uses	Coating Applications		
Appearance	Colors Available		
Forms	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.0 to 0.15	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	5.0		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	34.5	MPa	ASTM D638
Flexural Strength (Compression Molded)	75.8	MPa	ASTM D790
Compressive Strength	89.6	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	204	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>1</sup>	12	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	4.90		ASTM D150
Dissipation Factor (60 Hz)	7.0E-3		ASTM D150
Arc Resistance	180	sec	ASTM D495

Comparative Tracking Index (CTI)	500	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.59 mm	V-0		
3.18 mm	V-0		
6.35 mm	V-0		
Injection	Nominal Value	Unit	
Mold Temperature	138 to 166	°C	
NOTE			
1.	Method A (Short-Time)		

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