

# BMC 501

Thermoset Polyester

Bulk Molding Compounds, Inc.

## Message:

BMC 501 molding compound is a mineral filled, glass-fiber-reinforced compound suitable for compression, transfer and stuffer injection molding. It provides the user with good electrical properties and extremely low water absorption. This product has a low mold shrinkage and resists the formation of internal voids normally associated with glass filled compounds. Typical applications include slip rings, brush holders and connector bases. BMC 501 molding compound is produced in extruded form in a range on industrial colors. It is available in logs up to 12 inches in length or as precut slugs, of specific weight, in diameters from 1" to 2 ½". Within this range, smaller diameters are supplied as multiple extrusions and weight tolerances are plus or minus 5% up to a maximum of plus or minus 15 grams.

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	Good Electrical Properties		
	Low Shrinkage		
	Low to No Water Absorption		
Uses	Connectors		
Forms	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.93	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.0 to 0.15	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	25 to 35		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.5 to 48.3	MPa	ASTM D638
Flexural Strength	82.7 to 110	MPa	ASTM D790
Compressive Strength	138 to 165	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80 to 130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>1</sup>	13	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	5.20		ASTM D150
Dissipation Factor (60 Hz)	0.020		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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