

# BMC 3001H

Thermoset Polyester

Bulk Molding Compounds, Inc.

## Message:

BMC 3001H molding compound is a mineral filled, glass-fiber reinforced alkyd compound suitable for compression and transfer molding. Because of its soft flow, it is also used extensively in cold spur molding. This is a general-purpose material with good creep resistance and electrical properties. Typical applications include brush holders, voltage regulator housings and relay bases. BMC 3001H molding compound is produced in extruded form in a range of industrial colors. It is available in logs up to 12 inches in length or as precut slugs, of specific weight, in diameters from ¾ " to 2 7/8 ". Within this range smaller diameters are supplied as multiple extrusions and weight tolerances are plus or minus 5% up to a maximum of of plus 15 grams.

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	General Purpose		
	Good Creep Resistance		
	Good Electrical Properties		
Uses	Electrical/Electronic Applications		
	General Purpose		
Appearance	Colors Available		
Forms	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.14	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.30 to 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.19	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	65		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength (Compression Molded)	121	MPa	ASTM D790
Compressive Strength	159	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>1</sup>	13	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	6.70		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	HB		
3.18 mm	HB		
6.35 mm	HB		
Injection	Nominal Value	Unit	
Mold Temperature	138 to 166	°C	
NOTE			
1.	Method A (Short-Time)		

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#### Recommended distributors for this material

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