

BMC 1901

Alkyd

Bulk Molding Compounds, Inc.

Message:

BMC 1901 molding compound is a mineral filled, glass-fiber-reinforced alkyd compound suitable for compression transfer molding. It is a general purpose with medium impact strength and good overall electrical properties. Typical applications include switch components, relay bases, stack insulators and as a formable insulating putty for motor construction and repair. BMC 1901 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 3/4" 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 plus or minus 15 grams. This product is also available in the form of continuous, Round rope in diameters ranging from 3/4" to 1 1/4". Diameters of 1/2" and 5/8", as well as selected flat rope shapes, are supplied at an additional charge.

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	General Purpose		
	Good Electrical Properties		
	Medium Impact Resistance		
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	2.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.28	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	70		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength	121	MPa	ASTM D790
Compressive Strength	165	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	160	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 ¹	13	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	7.30		ASTM D150
Dissipation Factor (60 Hz)	0.040		ASTM D150

Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index (CTI)	600	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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