

# BMC 620M

Thermoset Polyester

Bulk Molding Compounds, Inc.

## Message:

BMC 620M molding compound is a mineral filled, glass-fiber-reinforced polyester compound suitable for compression, and stuffer injection molding. It is characterized by high impact strength, good moldability, excellent overall electrical properties and flame resistance. Typical applications include phase separators, circuit breaker housings, and applications requiring the properties of Military specification Mil-M-14G Type MAI-60. Although BMC 620M was designed to meet this specification, it has not been submitted for QPL recognition. BMC 620M molding compound is produced in a range of industrial colors, and is supplied in bulk form only.

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	Flame Retardant		
	Good Electrical Properties		
	Good Moldability		
	High Impact Resistance		
Uses	Electrical/Electronic Applications		
Agency Ratings	MIL M-14G, Type MAI-60		
Appearance	Colors Available		
Forms	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.86	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.15 to 0.25	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.13	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	35		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	62.1	MPa	ASTM D638
Flexural Strength (Compression Molded)	152	MPa	ASTM D790
Compressive Strength	179	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	530	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>	14	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	5.20		ASTM D150
Dissipation Factor (60 Hz)	0.020		ASTM D150
Arc Resistance	185	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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#### Recommended distributors for this material

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