

# BMC 5209

Thermoset Polyester

Bulk Molding Compounds, Inc.

## Message:

BMC 5209 molding compound is a mineral filled, glass-fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is a high impact material produced in extruded form for ease of handling. Other characteristics are good over all electrical properties and flame resistance. Typical applications include circuit breaker housings, standoff insulators, bus supports and tool housings. BMC 5209 molding compound is produced in extruded form in a range on industrial colors. It is available in logs up to 12 inches in length and from 1" to 2 ½" in diameter 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	Flame Retardant		
	Good Electrical Properties		
	High Impact Resistance		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
Appearance	Colors Available		
Forms	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.90	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.10 to 0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	48.3	MPa	ASTM D638
Flexural Strength (Compression Molded)	131	MPa	ASTM D790
Compressive Strength	179	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	400	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
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	V-0		
	V-0		
3.18 mm	5V		
6.35 mm	V-0		
Injection	Nominal Value	Unit	
Mold Temperature	138 to 166	°C	
NOTE			
1.	Method A (Short-Time)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

