

# BMC 5592

Thermoset Polyester

Bulk Molding Compounds, Inc.

## Message:

BMC 5592 molding compound is an arc, track and weather resistant grade polyester compound suitable for compression, transfer and stuffer injection molding. It has excellent impact strength, flame resistance and electrical characteristics. Typical applications include third rail and other rapid transit insulators. BMC 5592 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 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			
Features	Impact resistance, high		
	Good electrical performance		
	Good weather resistance		
	Flame retardancy		
Uses	Electronic insulation		
Appearance	Available colors		
Forms	BMC-Block Molding Compound		
Processing Method	Compression molding		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.87	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.20 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	79.3	MPa	ASTM D638
Flexural Strength	172	MPa	ASTM D790
Compressive Strength	159	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	750	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>	15	kV/mm	ASTM D149
Arc Resistance	195	sec	ASTM D495
Comparative Tracking Index (CTI)	600	V	UL 746

Flammability	Nominal Value	Unit	Test Method
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Flame Rating		UL 94
1.02 mm	V-0	UL 94
1.59 mm	V-0	UL 94
3.18 mm	V-0	UL 94
6.35 mm	V-0	UL 94

#### Additional Information

Inclined plane track resistance @ 2500 volts: 1000 Flame resistance, ASTM D229, Ignition time: 200 sec Flame resistance, ASTM D229, Burn time: 50 sec

Injection	Nominal Value	Unit
Mold Temperature	138 - 166	°C

#### NOTE

- Method A (short time)

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