

BMC 600LS

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

BMC 600LS molding compound is a low-shrink, mineral filled, glass-fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is a general purpose material with medium impact strength and good overall electrical properties. Typical applications include slip rings, commutators and brush holders.

BMC 600LS molding compound is produced in extruded form in a range of industrial colors. It is only available in logs up to 12 inches in length or as pre-cut slugs, of specific weight, in from 1" to 2 1/2". Within this range, smaller diameters are supplied as multiple extrusion; 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	General Purpose		
	Good Electrical Properties		
	Low Shrinkage		
	Medium Impact Resistance		
Uses	Communication Applications		
	General Purpose		
Appearance	Colors Available		
Forms	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.95	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.050 to 0.15	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.13	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	30 to 40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	34.5 to 48.3	MPa	ASTM D638
Flexural Strength (Compression Molded)	110 to 138	MPa	ASTM D790
Compressive Strength	152 to 179	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	110 to 210	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 ¹	13	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	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

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

