

Technical Data Sheet

# Bmc 600LS

Thermoset Polyester  
LyondellBasell Industries  
Engineering Plastics

## Product Description

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 on industrial colors. It is only available in logs up to 12 inches in length or as precut 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.

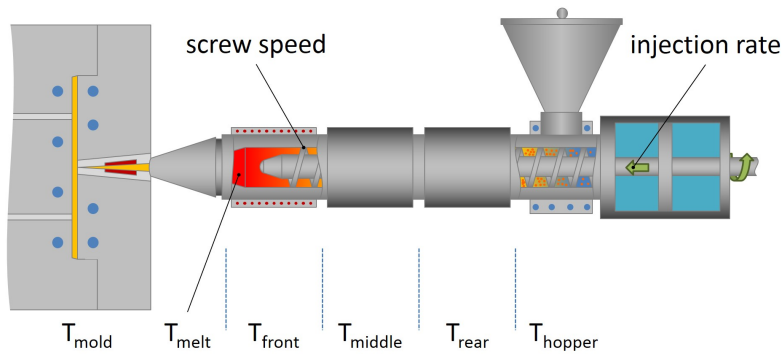
General		
Filler / Reinforcement	• Glass\Mineral	
Features	• General Purpose • Good Electrical Properties	• Low Shrinkage • Medium Impact Resistance
Uses	• Communication Applications • General Purpose	
Appearance	• Colors Available	
Forms	• BMC - Bulk Molding Compound	
Processing Method	• Compression Molding	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.95	1.95 g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 Hr, 73°F (23°C))	0.13 %	0.13 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, Compression Molded)	5000 to 7000 psi	34.5 to 48.3 MPa	ASTM D638
Flexural Strength (Compression Molded)	16000 to 20000 psi	110 to 138 MPa	ASTM D790
Compressive Strength	22000 to 26000 psi	152 to 179 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	2.0 to 4.0 ft-lb/in	110 to 210 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	30 to 40	30 to 40	ASTM D2583
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed, Compression Molded	> 500 °F	> 260 °C	ASTM D648
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength (Method A (short-time))	330 V/mil	13 kV/mm	ASTM D149
Arc Resistance	> 180 sec	> 180 sec	ASTM D495
Comparative Tracking Index (CTI)	> 600 V	> 600 V	UL 746A
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 In (1.6 Mm)	HB	HB	
0.13 In (3.2 Mm)	HB	HB	
0.25 In (6.4 Mm)	HB	HB	

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Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	280 to 330 °F	138 to 166 °C

**Notes**

These are typical property values not to be construed as specification limits.