

## Bulk Molding Compounds BMC G10(12) Mineral Filled, Glass Fiber Reinforced Polyester

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass and Mineral Filled BMC

### Material Notes:

BMC G10 is a general purpose, mineral filled, glass fiber-reinforced polyester that is suitable for compression, transfer and stuffer injection molding. G10 is well suited to applications where high surface hardness is required. Information provided by Bulk Molding Compounds, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bulk-Molding-Compounds-BMC-G1012-Mineral-Filled-Glass-Fiber-Reinforced-Polyester.php](http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-G1012-Mineral-Filled-Glass-Fiber-Reinforced-Polyester.php)

Physical Properties	Metric	English	Comments
Density	2.07 - 2.27 g/cc	0.0748 - 0.0820 lb/in <sup>3</sup>	Molded
Linear Mold Shrinkage	0.0022 - 0.0042 cm/cm	0.0022 - 0.0042 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	60 - 70	60 - 70	
Tensile Strength	49.6 - 63.4 MPa	7200 - 9200 psi	
Flexural Strength	103 - 131 MPa	15000 - 19000 psi	
Flexural Modulus	7.58 - 8.96 GPa	1100 - 1300 ksi	
Compressive Strength	135 - 163 MPa	19600 - 23600 psi	
Izod Impact, Notched	2.30 - 2.40 J/cm	4.30 - 4.50 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	218 - 260 °C	425 - 500 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.2 - 15.2 kV/mm	335 - 385 kV/in	short time
Arc Resistance	181 sec	181 sec	

Processing Properties	Metric	English	Comments
Processing Temperature	143 - 171 °C	290 - 340 °F	

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