

Bulk Molding Compounds BMC 810 General Purpose Molding Compound

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

Material Notes:

BMC 810 is a general purpose, very high strength compound suitable for compression, transfer and stuffer injection molding. It is characterized by excellent flow and controlled reactivity and is well suited for injection molding. Typical applications include structural components, mechanical applications, and bearing plates.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-810-General-Purpose-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.85 g/cc	1.75 - 1.85 g/cc	
Water Absorption	0.15 - 0.25 %	0.15 - 0.25 %	24 hours, 23°C
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	45 - 52	45 - 52	
Tensile Strength, Ultimate	68.9 - 82.7 MPa	10000 - 12000 psi	
Elongation at Yield	2.0 - 2.5 %	2.0 - 2.5 %	Tensile
Flexural Strength	165 - 186 MPa	24000 - 27000 psi	
Flexural Modulus	11.7 - 13.1 GPa	1700 - 1900 ksi	
Compressive Strength	131 - 152 MPa	19000 - 22000 psi	
Izod Impact, Notched	7.47 - 9.08 J/cm	14.0 - 17.0 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 232 °C	>= 450 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Strength	16.7 kV/mm	425 kV/in	Short Time
Arc Resistance	>= 180 sec	>= 180 sec	
Comparative Tracking Index	>= 500 V	>= 500 V	

Processing Properties	Metric	English	Comments
Mold Temperature	138 - 166 °C	280 - 330 °F	

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