

Bulk Molding Compounds BMC 300 Mineral Filled, Glass Reinforced Polyester

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

BMC 300 is a general purpose, mineral filled, glass fiber-reinforced polyester that is suitable for compression, transfer and stuffer injection molding. Our Granite-X series of molding compounds belongs to this material series. As with all other BMCI compounds, this Series can be supplied in logs, slugs or bulk and can be customized for specific applications. Typical applications include Sinks, Grill Shelves, and Distributor Caps.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-300-Mineral-Filled-Glass-Reinforced-Polyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 2.05 g/cc	1.75 - 2.05 g/cc	
Water Absorption	0.10 - 0.20 %	0.10 - 0.20 %	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	40 - 50	40 - 50	
Tensile Strength, Ultimate	34.5 - 68.9 MPa	5000 - 10000 psi	
Flexural Strength	68.9 - 159 MPa	10000 - 23000 psi	
Flexural Modulus	11.7 - 13.1 GPa	1700 - 1900 ksi	
Compressive Strength	124 - 152 MPa	18000 - 22000 psi	
Izod Impact, Notched	1.07 - 6.41 J/cm	2.00 - 12.0 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	12.4 - 14.6 kV/mm	315 - 370 kV/in	Short Time
Arc Resistance	>= 185 sec	>= 185 sec	

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

Processing Properties

Metric

English

Comments

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