

Bulk Molding Compounds BMC 1000 Thermoset Polyester, Food Grade

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

Material Notes:

BMC 1000 is a general purpose, food contact grade, glass fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. As with all other BMC, Inc. compounds, this Series can be supplied in logs, slugs or bulk. Typical applications are microwave cookware and airline dishes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-1000-Thermoset-Polyester-Food-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 2.10 g/cc	1.70 - 2.10 g/cc	
Water Absorption	0.10 - 0.20 %	0.10 - 0.20 %	24 hours, 23°C
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	45 - 65	45 - 65	
Tensile Strength, Ultimate	34.5 - 55.2 MPa	5000 - 8000 psi	
Flexural Strength	96.5 - 138 MPa	14000 - 20000 psi	
Flexural Modulus	11.7 - 14.5 GPa	1700 - 2100 ksi	
Compressive Strength	110 - 138 MPa	16000 - 20000 psi	
Izod Impact, Notched	1.07 - 3.20 J/cm	2.00 - 6.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 204 °C	>= 400 °F	
Flammability, UL94	HB	HB	

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

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