

Bulk Molding Compounds BMC 102 Glass Filled Thermoset Polyester

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

Material Notes:

BMC 102 is a medium strength, glass fiber reinforced molding compound that meets Ford Specification ESF-M3D56-A. It can be supplied in bulk or extruded in pre-weighed slugs and is well suited for injection, transfer or compression molding of intricate parts. Typical applications are brush holders, bobbins and electrical connectors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-102-Glass-Filled-Thermoset-Polyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.90 - 2.05 g/cc	1.90 - 2.05 g/cc	
Water Absorption	0.10 - 0.20 %	0.10 - 0.20 %	24 hours, 23°C
Linear Mold Shrinkage	0.0030 - 0.0045 cm/cm	0.0030 - 0.0045 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	50 - 55	50 - 55	
Tensile Strength, Ultimate	34.5 - 48.3 MPa	5000 - 7000 psi	
Flexural Strength	96.5 - 110 MPa	14000 - 16000 psi	
Flexural Modulus	12.4 - 13.8 GPa	1800 - 2000 ksi	
Compressive Strength	124 - 152 MPa	18000 - 22000 psi	
Izod Impact, Notched	1.07 - 2.14 J/cm	2.00 - 4.00 ft-lb/in	

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

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.4 - 14.2 kV/mm	340 - 360 kV/in	Step by Step
	15.7 - 16.9 kV/mm	400 - 430 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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