

Bulk Molding Compounds BMC 100 Thermoset Polyester, GP

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

Material Notes:

BMC 100 is a high strength, low shrink general purpose molding compound. It can be supplied in bulk or extruded in pre-weighted slugs. Due to the excellent flow and controlled reactivity, BMC 100 is well suited for injection, transfer or compression molding of intricate parts. Typical applications are circuit breakers, insulators, bobbins and electrical connectors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-100-Thermoset-Polyester-GP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 - 1.95 g/cc	1.85 - 1.95 g/cc	
Water Absorption	0.15 - 0.25 %	0.15 - 0.25 %	24 hours, 23°C
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40 - 50	40 - 50	
Tensile Strength, Ultimate	27.6 - 41.4 MPa	4000 - 6000 psi	
Flexural Strength	82.7 - 110 MPa	12000 - 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	13.8 - 14.6 kV/mm	350 - 370 kV/in	Step by Step
	14.6 - 16.5 kV/mm	370 - 420 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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