

Bulk Molding Compounds BMC 400 Thermoset Polyester, Low Shrink, High Strength, Electrical Grade

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

Material Notes:

BMC 400 is a high strength, low shrink molding compound. It can be supplied in bulk or extruded in pre-weighted slugs. Typical applications are circuit breakers, insulators, and power tool housings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-400-Thermoset-Polyester-Low-Shrink-High-Strength-Electrical-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.95 g/cc	1.75 - 1.95 g/cc	
Water Absorption	0.12 - 0.20 %	0.12 - 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 - 55.2 MPa	5000 - 8000 psi	
Flexural Strength	96.5 - 138 MPa	14000 - 20000 psi	
Flexural Modulus	11.7 - 13.1 GPa	1700 - 1900 ksi	
Compressive Strength	124 - 159 MPa	18000 - 23000 psi	
Izod Impact, Notched	1.60 - 4.27 J/cm	3.00 - 8.00 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 - 15.7 kV/mm	350 - 400 kV/in	Short Time
Arc Resistance	>= 180 sec	>= 180 sec	
Comparative Tracking Index	>= 500 V	>= 500 V	

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