

Bulk Molding Compounds BMC 404 Thermoset Polyester, Low Shrink, High Strength, Electrical Grade

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

Material Notes:

BMC 404 is a high strength, low shrink, glass reinforced polyester molding compound that meets Ford Specification ESF-M3D121-A. BMC 404 has excellent electrical properties and creep resistance. It can be pigmented in a wide range of colors and can be supplied in bulk or extruded in pre - weighed slugs. Typical applications are injection, compression or transfer molded circuit breakers, insulators, and power tool housings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-404-Thermoset-Polyester-Low-Shrink-High-Strength-Electrical-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 - 1.90 g/cc	1.80 - 1.90 g/cc	
Water Absorption	0.12 - 0.20 %	0.12 - 0.20 %	24 hours, 23°C
Linear Mold Shrinkage	0.0015 - 0.0040 cm/cm	0.0015 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	45 - 55	45 - 55	
Tensile Strength, Ultimate	37.9 - 55.2 MPa	5500 - 8000 psi	
Flexural Strength	103 - 124 MPa	15000 - 18000 psi	
Flexural Modulus	11.0 - 13.1 GPa	1600 - 1900 ksi	
Compressive Strength	124 - 145 MPa	18000 - 21000 psi	
Izod Impact, Notched	2.67 - 4.81 J/cm	5.00 - 9.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.8 - 14.6 kV/mm	350 - 370 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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