

Bulk Molding Compounds BMC 200 Thermoset Polyester, Electrical Grade

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

Material Notes:

BMC 200 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, bobbins, electrical connectors and power tool housings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-200-Thermoset-Polyester-Electrical-Grade.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	68.9 - 103 MPa	10000 - 15000 psi	
Flexural Modulus	12.4 - 13.8 GPa	1800 - 2000 ksi	
Compressive Strength	124 - 138 MPa	18000 - 20000 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	V-0	V-0	

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