

Bulk Molding Compounds BMC 501E Mineral Filled, Glass Reinforced Polyester

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

Material Notes:

BMC 501E molding compound is a mineral filled, glass-fiber-reinforced polyester compound suitable for compression and transfer molding. It is a product with good overall electrical properties, flame resistance, and low water absorption. Distinguished from other materials by its very soft flow, it is an excellent compound for encapsulating delicate components. Typical applications include coil and solenoid Encapsulation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-501E-Mineral-Filled-Glass-Reinforced-Polyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.77 g/cc	1.77 g/cc	
Water Absorption	0.10 %	0.10 %	24 hours, 23°C
Linear Mold Shrinkage	0.00 - 0.0015 cm/cm	0.00 - 0.0015 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	<= 10	<= 10	
Tensile Strength, Ultimate	27.6 - 41.4 MPa	4000 - 6000 psi	
Flexural Strength	68.9 - 82.7 MPa	10000 - 12000 psi	
Compressive Strength	75.8 - 103 MPa	11000 - 15000 psi	
Izod Impact, Notched	0.801 - 1.60 J/cm	1.50 - 3.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 204 °C	>= 400 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 6.35 mm	@Thickness 0.250 in	
	V-0	V-0	
	@Thickness 3.17 mm	@Thickness 0.125 in	
	V-0	V-0	
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
	4.9	4.9	

Dielectric Constant Electrical Properties	Metric @Frequency 60 Hz	English @Frequency 60 Hz	Comments
Dielectric Strength	11.8 kV/mm	300 kV/in	Short Time
Dissipation Factor	0.0070 @Frequency 60 Hz	0.0070 @Frequency 60 Hz	
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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