

Bulk Molding Compounds BMC 501 Mineral Filled, Glass Fiber Reinforced Compound

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

Material Notes:

BMC 501 molding compound is a mineral filled glass-fiber-reinforced compound suitable for compression, transfer and stuffer injection molding. It provides the user with good electrical properties And extremely low water absorption. This product has a low mold shrinkage and resists the formation of internal voids normally associated with glass filled compounds. Typical applications include slip rings, brush holders and connector bases.

Order this product through the following link:



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

Physical Properties	Metric	English	Comments
Specific Gravity	1.93 g/cc	1.93 g/cc	
Water Absorption	0.060 %	0.060 %	24 hours, 23°C
Linear Mold Shrinkage	0.00 - 0.015 cm/cm	0.00 - 0.015 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	25 - 35	25 - 35	
Tensile Strength, Ultimate	34.5 - 48.3 MPa	5000 - 7000 psi	
Flexural Strength	82.7 - 110 MPa	12000 - 16000 psi	
Compressive Strength	138 - 165 MPa	20000 - 24000 psi	
Izod Impact, Notched	0.801 - 1.33 J/cm	1.50 - 2.50 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	
	@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
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Electrical Properties Dielectric Constant	 Metric	 English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	13.0 kV/mm	330 kV/in	Short Time
Dissipation Factor	0.020	0.020	
	@Frequency 60 Hz	@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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