

Bulk Molding Compounds BMC 620M Mineral Filled, Glass Fiber Reinforced Polyester Compound

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

Material Notes:

BMC 620M molding compound is a mineral filled, glass fiber-reinforced polyester compound suitable for compression, and stuffer injection molding. It is characterized by high impact strength, good moldability, excellent overall electrical properties and flame resistance. Typical applications include phase separators, circuit breaker housings, and applications requiring the properties of Military specification Mil-M-14G Type MAI-60.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-620M-Mineral-Filled-Glass-Fiber-Reinforced-Polyester-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.86 g/cc	1.86 g/cc	
Water Absorption	0.13 %	0.13 %	24 hours, 23°C
Linear Mold Shrinkage	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	30 - 40	30 - 40	
Tensile Strength, Ultimate	55.2 - 68.9 MPa	8000 - 10000 psi	
Flexural Strength	138 - 165 MPa	20000 - 24000 psi	
Compressive Strength	165 - 193 MPa	24000 - 28000 psi	
Izod Impact, Notched	4.81 - 5.87 J/cm	9.00 - 11.0 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
Dielectric Constant	5.2	5.2	
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	14.2 kV/mm	360 kV/in	Short Time
Dissipation Factor	0.020	0.020	
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	185 sec	185 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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