

Bulk Molding Compounds BMC 620 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 620 molding compound is a mineral filled, glass fiber-reinforced polyester compound suitable for compression, and stuffer injection molding. It is characterized by good moldability, high impact strength, excellent overall electrical properties and flame resistance. Typical applications include molded replacements for die castings, buss supports, circuit breaker housings, phase separators and contactor blocks.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.77 g/cc	1.77 g/cc	
Water Absorption	0.14 %	0.14 %	24 hours, 23°C
Linear Mold Shrinkage	0.0025 - 0.0035 cm/cm	0.0025 - 0.0035 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	36 - 45	36 - 45	
Tensile Strength, Ultimate	34.5 - 55.2 MPa	5000 - 8000 psi	
Flexural Strength	131 - 159 MPa	19000 - 23000 psi	
Compressive Strength	152 - 179 MPa	22000 - 26000 psi	
Izod Impact, Notched	3.20 - 4.81 J/cm	6.00 - 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	
	@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	Metric	English	Comments
	@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	190 sec	190 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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