

Bulk Molding Compounds BMC 606 Mineral Filled, Glass Reinforced Polyester Compound

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

Material Notes:

BMC 606 is a mineral filled, glass reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is characterized by good moldability, excellent impact strength, excellent overall electrical properties and flame resistance. Typical applications are circuit breakers, transformer bobbins, motor end bells and household appliances.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-606-Mineral-Filled-Glass-Reinforced-Polyester-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 2.05 g/cc	1.75 - 2.05 g/cc	
Water Absorption	0.14 %	0.14 %	24 hours, 23°C
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	30 - 50	30 - 50	
Tensile Strength, Ultimate	13.8 - 62.1 MPa	2000 - 9000 psi	
Flexural Strength	75.8 - 145 MPa	11000 - 21000 psi	
Izod Impact, Notched	2.67 - 8.01 J/cm	5.00 - 15.0 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 Strength	>= 13.8 kV/mm	>= 350 kV/in	Short Time
Arc Resistance	>= 170 sec	>= 170 sec	

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

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