

Bulk Molding Compounds BMC 610 Mineral filled, glass-fiber-reinforced polyester compound

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

Material Notes:

BMC 610 molding compound is a mineral filled, glass fiber reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is set apart from other medium impact electrical grade materials by its very high arc resistance and outstanding flame resistance in thin sections. Typical applications include transformer bobbins, terminal boards, arc chutes and contactors. BMC 610 molding compound is produced in extruded form in a range of industrial colors. It is available in logs up to 12 inches in length or as pre-cut slugs, of specific weight, in diameters 1" to 2 1/2". Within this range, smaller diameters are supplied as multiple extrusion and weight tolerances are plus or minus 5%, up to a maximum of plus or minus 15 grams. Information provided by Bulk Molding Compounds

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-610-Mineral-filled-glass-fiber-reinforced-polyester-compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.88 - 1.92 g/cc	1.88 - 1.92 g/cc	molded
Water Absorption	0.10 %	0.10 %	
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Linear Mold Shrinkage	0.0025 - 0.0045 cm/cm	0.0025 - 0.0045 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	30 - 40	30 - 40	
Tensile Strength at Break	41.4 - 55.2 MPa	6000 - 8000 psi	
Flexural Yield Strength	96.5 - 124 MPa	14000 - 18000 psi	
Compressive Strength	165 - 193 MPa	24000 - 28000 psi	
Izod Impact, Unnotched	1.07 - 2.14 J/cm	2.00 - 4.00 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 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	V-0	V-0	

Thermal Properties	Metric	English	Comments
	@Thickness 1.09 mm	@Thickness 0.0430 in	
	5VB	5VB	
	@Thickness 1.70 mm	@Thickness 0.0670 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.5	5.5	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	14.2 kV/mm	360 kV/in	
Dissipation Factor	0.015	0.015	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Arc Resistance	<= 210 sec	<= 210 sec	
Track Resistance	<= 54000 sec	<= 54000 sec	2.5 kv, Inclined plane
Comparative Tracking Index	<= 600 V	<= 600 V	

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

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