BMC 610 Special

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

BMC 610 molding compound is a mineral filled, glass-fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is set a part form 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 on industrial colors. It is available in logs up to 12 inches in length or as precut slugs, of specific weight, in diameters 1" to 2 ½" . 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.

General Information	
Filler / Reinforcement	Glass\Mineral
Features	Arc Resistant Flame Retardant Good Electrical Properties Medium Impact Resistance
Uses	Electrical/Electronic Applications
Appearance	Colors Available
Forms	BMC - Bulk Molding Compound
Processing Method	Compression Molding Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.90	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.25 to 0.45	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Barcol Hardness	35		ASTM D2583
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	48.3	MPa	ASTM D638
Flexural Strength	110	MPa	ASTM D790
Compressive Strength	179	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	160	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength [1]	14	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	5.50		ASTM D150

Dissipation Factor (60 Hz)	0.015		ASTM D150
Arc Resistance	210	sec	ASTM D495
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.09 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
1.70 mm	5VA		
Injection	**Nominal Value**	**Unit**	
Mold Temperature	138 to 166	°C	
NOTE			
1.	Method A (Short-Time)		

Recommended distributors for this material

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