

BMC 606

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

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.

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	Flame Retardant		
	Good Electrical Properties		
	Good Moldability		
	High Impact Resistance		
Uses	Appliances		
	Electrical/Electronic Applications		
Forms	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.90	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	1.0E-4 to 3.0E-4	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.14	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	37.9	MPa	ASTM D638
Flexural Strength (Compression Molded)	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	14	kV/mm	ASTM D149
Arc Resistance	170	sec	ASTM D495

Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Mold Temperature	138 to 166	°C	
NOTE			
1.	Method A (Short-Time)		

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