

BMC 200

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

BMC 200 is a high strength, low shrink molding compound. It can be supplied in bulk or extruded in pre-weighted slugs. Typical applications are circuit breakers, insulators, bobbins, electrical connectors and power tool housings.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Flame Retardant		
	High Strength		
	Low Shrinkage		
Uses	Electrical Housing		
	Electrical Parts		
	Handles		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.85 to 1.95	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.0E-4 to 4.0E-4	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15 to 0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40 to 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.6 to 41.4	MPa	ASTM D638
Flexural Modulus	12400 to 13800	MPa	ASTM D790
Flexural Strength (Yield)	68.9 to 103	MPa	ASTM D790
Compressive Strength	124 to 138	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110 to 210	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			ASTM D149
-- ¹	15 to 17	kV/mm	
-- ²	14 to 15	kV/mm	
Arc Resistance (1.59 mm)	> 180	sec	ASTM D495

Comparative Tracking Index (CTI) (1.59 mm)	500	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	138 to 166	°C	
Middle Temperature	138 to 166	°C	
Front Temperature	138 to 166	°C	
Mold Temperature	138 to 166	°C	
NOTE			
1.	Method A (Short-Time)		
2.	Method B (Step-by-Step)		

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