

BMC 1902

Alkyd

Bulk Molding Compounds, Inc.

Message:

BMC 1902 molding compound is a mineral filled, glass-fiber-reinforced alkyd compound suitable for compression molding. It was developed primarily for applications requiring very good impact and flexural strengths. Typical applications include phase barriers, connector bases, switch cases and circuit breaker handles. BMC 1902 molding compound is produced in a range Of industrial colors and is only supplied in bulk form.

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	Good Impact Resistance		
	Good Strength		
Uses	Connectors		
	Electrical/Electronic Applications		
	Handles		
Appearance	Colors Available		
Forms	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.07	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.23	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	70		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength	162	MPa	ASTM D790
Compressive Strength	165	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	270	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	12	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	7.10		ASTM D150
Dissipation Factor (60 Hz)	0.030		ASTM D150
Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index (CTI)	500	V	UL 746
Flammability	Nominal Value	Unit	Test Method

Flame Rating		UL 94
1.59 mm	HB	
3.18 mm	HB	
6.35 mm	HB	

Injection	Nominal Value	Unit
Mold Temperature	138 to 166	°C

NOTE		
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1. Method A (Short-Time)

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