

BMC 5436

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

BMC 5436 molding compound is a low cost, mineral filled, glass-fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is characterized by good moldability, medium impact strength and excellent overall electrical properties. Typical applications include circuit breakers, transformer bobbins and motor end bells. BMC 5436 molding compound is produced in extruded form in a range on industrial colors. Because of the soft consistency of this product, it is only available in logs from 3 inches to 12 inches in length and from 1" to 2 ½" in diameter. Within this range, smaller diameters are supplied as multiple extrusions.

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	Good Electrical Properties		
	Good Moldability		
	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	2.01 to 2.06	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.45	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.14	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40 to 60		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.6 to 41.4	MPa	ASTM D638
Flexural Strength	110 to 138	MPa	ASTM D790
Compressive Strength	193 to 228	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 ¹	13	kV/mm	ASTM D149
Arc Resistance	> 180	sec	ASTM D495
Comparative Tracking Index (CTI)	> 600	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	149 to 177	°C

NOTE

1.
- Method A (Short-Time)

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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