

BMC 605LS

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

BMC 605LS molding compound is a low-shrink, 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 and flame resistance. Typical applications include circuit breakers, transformer bobbins and motor end bells.

BMC 605LS molding compound is produced in extruded form in a range of industrial colors. It is available in logs up to 12 inches in length or as pre-cut slugs, of specific weight, in diameters from 1" to 2 1/2". 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	Flame Retardant		
	Good Electrical Properties		
	Good Moldability		
	Low Shrinkage		
	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	1.88 to 1.96	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.22	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.14	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40 to 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	41.4 to 55.2	MPa	ASTM D638
Flexural Strength (Compression Molded)	110 to 138	MPa	ASTM D790
Compressive Strength	165 to 193	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	110 to 320	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
Arc Resistance	190	sec	ASTM D495
Comparative Tracking Index (CTI)	> 600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.59 mm	V-0		
3.18 mm	V-0		
6.35 mm	V-0		
Injection	Nominal Value	Unit	
Mold Temperature	138 to 166	°C	
NOTE			

1. Method A (Short-Time)

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Recommended distributors for this material

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

