BMC 5209-12940

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

BMC 5209-12940 molding compound is a mineral filled, glass fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is a high impact material produced in bulk form for maximum strength. Other characteristics are good over all electrical properties and flame resistance. Typical applications include circuit breaker housings, standoff insulators, bus supports and tool housings. BMC 5209-12940 molding compound can be produced in a range on industrial colors.

General Information	
Filler / Reinforcement	Glass\Mineral
Features	Flame Retardant Good Electrical Properties High Impact Resistance
Uses	Electrical Housing 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	1.89	g/cm³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.020 to 0.12	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Barcol Hardness	44		ASTM D2583
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, Compression Molded)	58.6	MPa	ASTM D638
Flexural Strength (Compression Molded)	165	MPa	ASTM D790
Compressive Strength	179	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	430	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]	16	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	V-0		
	V-0		
3.18 mm	5V		
6.35 mm	V-0		
Injection	**Nominal Value**	**Unit**	
Mold Temperature	138 to 166	°C	
NOTE			
1.	Method A (Short-Time)		

Recommended distributors for this material

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