

BMC 2274

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

BMC 2274 molding compound is a mineral filled, glass-fiber-reinforced polyester compound suitable for compression transfer and stuffer injection molding. It is a general-purpose material with medium impact strength and good overall electrical properties. Typical applications include slip rings, commutators and brush holders. BMC 2274 molding compound is produced in extruded form in a range on industrial colors. It is available in logs up to 12 inches in length or as precut slugs, of specific weight, in diameters from 1" to 2 ½". Within this range, smaller diameters are supplied as multiple extrusions 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	General Purpose
	Medium Impact Resistance
Uses	Electrical/Electronic Applications
	General Purpose
Appearance	Colors Available
Forms	BMC - Bulk Molding Compound
Processing Method	Compression Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.01	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.25 to 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.13	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	45		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	41.4	MPa	ASTM D638
Flexural Strength (Compression Molded)	124	MPa	ASTM D790
Compressive Strength	165	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	160	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	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	138 to 166	°C	
NOTE			
1.	Method A (Short-Time)		

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