



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

BMC for Standoff Insulators

Bulk Molding Compound

Bulk Molding Compound (BMC) is a polymeric composite material made of a mixture of unsaturated polymer resin, processing additives, cross-linking catalyst, shrink control polyester, mold release agent, fire retardant agent, color pigments, inorganic fillers, and glass chops. Its strong mechanical and electrical insulating properties make it an ideal material for supporting bus bars or other live electrical components. The material is compression molded into a variety of shapes, which commonly include metallic inserts such as threaded inserts for mechanical connections and improved mechanical strength.

UL FILE: E354884

The Gund Company fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

		ASTM / IEC			
PROPERTIES		Test Method	Units	PLC	Typical Values
PHYSICAL	Specific Gravity	ASTM D792			1.9
	Glass Contents		%		20
	Water Absorption: 24 hrs.	ASTM D570	%		0.15
	Pollution Degree	IEC 60950			3
	Material Group	IEC 60601			1
THERMAL	Working Temp		°C		-40 - 135
	Insulation Class	NEMA			B
	Relative Temperature Index	UL 746B	°C		130
	Flammability Index	UL 94			V-0
	Glow Wire Ignition Temp (Thickness >3 mm)	IEC 60695-2-13	°C		960
	Hot Wire Ignition Test	ASTM D3874	Seconds	0	>120
MECHANICAL	Tensile Strength	ASTM D638	Kgf/cm²		400
	Flexural Strength	ASTM D790	Kgf/cm²		900
	IZOD Impact Strength	ASTM D256	J/m		250
	Compressive Strength	ASTM D695	Kgf/cm²		1,500
ELECTRICAL	Track Resistance	ASTM D2303	Minutes		>600
	Dielectric Strength	ASTM D149	kV/mm		10
	High Voltage Arc Tracking Rate	UL 746A	mm/min	0	<10
	High Current Arc Ignition	UL 746A	Mean # of Arcs	0	>120
	Dry Arc Resistance	ASTM D495	Seconds		>180
	Comparative Tracking Index	IEC 60112	V	0	>600

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.