



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

BMC/DMC PD20 For Standoff Insulators

Item:	BMC/DMC for Standoff Insulators
Description:	Bulk Molding Compound (BMC) / Dough Molding Compound (DMC) are polymeric composite materials made of a mixture of unsaturated polymer resin, processing additives, cross linked catalyst, shrink control polyester, mold release agent, fire retardant agent, color pigments, inorganic fillers, and glass chops. It 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 #:	Raw Materials: E249670 / Finished Parts: UL E354884

Key Characteristics	Test Method	Values	PLC	Units
Specific Gravity	ASTM D-792	1.9		--
Glass Contents	--	20		%
Water Absorption (24 hours)	ASTM D-570	0.15		%
Tensile Strength	ASTM D-638	400 (5,690)		kgf/cm ² (psi)
Flexural Strength	ASTM D-790	900 (12,801)		kgf/cm ² (psi)
Izod Impact Strength	ASTM D-256	250 (4.86)		J/m (ft-lb/in)
Compressive Strength	ASTM D-695	1,500 (21,335)		kgf/cm ² (psi)
Compressive Modulus	ASTM D-695	10,000 (140,000)		kgf/cm ² (psi)
Dielectric Strength	ASTM D-149	10		kV/mm
Comparative Tracking Index	IEC-60112	> 600	0	V
Track Resistance	ASTM D-2303	> 1,500		Minutes
Dry Arc Resistance	ASTM D-495	> 180		Seconds
Flammability Index	UL 94	V-0		--
Glow Wire Ignition Temp (Thickness > 3mm)	IEC-60695-2-13	960		°C
Hot Wire Ignition Test	ASTM D-3874	> 120	0	Seconds
Relative Temperature Index,	UL - 746B	130		°C
Mechanical Strength (Thickness - 3mm)	UL - 746B	105		°C
Hight Voltage Arc Tracking Rate	UL - 746A	< 10	0	mm/min
High Current Arc Ignition	UL - 746A	> 120	0	mean # of arcs
Material Group	IEC - 60601	1		--
Pollution Degree	IEC - 60950	3		--
Insulation Class	as per NEMA	B		--
Working Temp	--	(-) 40 to 135		°C

Data supplied above are typical values and are not to be considered specification values. All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding 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 warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.