



## Material Series: MB2100

### SERIES DESCRIPTION & APPLICATION

MB2100 is a high strength electrical grade thermoset composite bulk molding compound. This material was designed to have elevated strength values for demanding electrical applications. This material is UL listed under file **E80533**

General Material Properties		
Property (Test Method)	Value	Units
Specific Gravity (ASTM D792)	1.8-1.85	
Mold Shrinkage (ASTM D955)	0.0017-0.0025	in/in
Water Absorption (ASTM D570)	0.15 <	%
Barcol Hardness (ASTM D2583)	40-60	Barcol Units

Mechanical Material Properties (Net Shape Molded Coupons)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	15,400	105	psi (MPa)
Tensile Modulus (ASTM D638)	1.72 x 10 <sup>6</sup>	11.8	psi (GPa)
Flexural Strength (ASTM D790)	35,400	244	psi (MPa)
Flexural Modulus (ASTM D790)	3.35 x 10 <sup>6</sup>	23.1	psi (GPa)
Notched Izod Impact (ASTM D256)	20.2	1080	ft-lb/in (J/m)

Thermal and Electrical Material Properties			
Property (Test Method)	Value (US)	Value (Metric)	Units
Flammability (UL 94 V0)	0.118	3.0	in (mm)
Heat Deflection Temperature (ASTM D648)	>500	>260	°F (°C)
UL RTI Elec, Imp, Str (UL 746B)		130,130,130	°C
Dielectric Strength (ASTM D149)	610	24	Volts/mil (kV/mm)
Comparative Tracking Index (CTI) (UL 746A)	0	0	PLC

All property values are based on test performed on standard ASTM test samples and according to standard ASTM test methods unless otherwise indicated. This information is offered solely for your consideration and is to be used as a guide only. No other warranty is implied.

### Contact Us:

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