



MATERIALS DATA SHEET

10095 Queens Way | Chagrin Falls, OH 44023



Material Series: MB10000-45

SERIES DESCRIPTION & APPLICATION

MB10000-45 is a highly engineered thermoset composite bulk molding compound. This material was designed to have all around elevated strength values for highest demands.

General Material Properties		
Property (Test Method)	Value	Units
Specific Gravity (ASTM D792)	1.90	
Mold Shrinkage (ASTM D955)	0.0005-0.002	in/in
Water Absorption (ASTM D570)	0.12	%
Barcol Hardness (ASTM D2583)	30-35	Barcol Units

Mechanical Material Properties (Net Shape Molded Coupons)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	9,000-13,000	62-90	psi (MPa)
Flexural Strength (ASTM D790)	23,000-30,000	155-205	psi (MPa)
Flexural Modulus (ASTM D790)	2.4 x 10 ⁶	16.5	psi (GPa)
Compressive Strength (ASTM D695)	15,000-18,000	100-125	psi (MPa)
Shear Strength (ASTM D732)	13,000-15,000	90-100	Psi (MPa)
Notched Izod Impact (ASTM D256)	16-27	850-1440	ft-lb/in (J/m)

Thermal and Electrical Material Properties			
Property (Test Method)	Value (US)	Value (Metric)	Units
Flammability (UL 94 HB) *NOT UL LISTED*	0.0625	1.5	in (mm)
Dielectric Strength (ASTM D149)	350-430	13.8-17	Volts/mil (kV/mm)
Arc Track Resistance (ASTM D495)	180	180	Seconds

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:

CORPORATE HEADQUARTERS

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