



## Material Series: MB1000-20

### SERIES DESCRIPTION & APPLICATION

MB1000-20 is an easily customized, general purpose material. The 1000 Series is designed for Powder Coating and Electrostatic painting applications. Key features include: Moderate strength and excellent electrical properties.

General Material Properties		
Property (Test Method)	Value	Units
Density (ASTM D792)	1.7-1.9	g/cm <sup>3</sup>
Mold Shrinkage (ASTM D955)	0.0005-0.002	in/in
Water Absorption (ASTM D570)	0.13	%
Barcol Hardness (ASTM D2583)	45-55	Barcol Units

Mechanical Material Properties (Net Shape Molded Coupons)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	6,000-9,000	41-62	psi (MPa)
Flexural Strength (ASTM D790)	15,000-19,000	100-130	psi (MPa)
Flexural Modulus (ASTM D790)	1.5-1.7 x 10 <sup>6</sup>	10.3-11.7	psi (GPa)
Compressive Strength (ASTM D695)	19,000-21,000	130-145	psi (MPa)
Shear Strength (ASTM D732)	6,000-8,000	41-55	Psi (MPa)
Notched Izod Impact (ASTM D256)	6-9	320-480	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*	Pass 0.06	Pass 1.5	in (mm)
Heat Deflection Temperature (ASTM D648)	>500	>260	°F (°C)
UL RTI Elec, Imp, Str (UL 746B) *NOT UL LISTED*	-	130, 130, 130	°C
Dielectric Strength (ASTM D149)	355	14.0	Volts/mil (kV/mm)
Arc Track Resistance (ASTM D495)	140+	140+	Seconds
Incline Plane Tracking (ASTM D2303-85)	500+	500+	Minutes

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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