

Material Series: MB2000-10

SERIES DESCRIPTION & APPLICATION

MB2000-10 is an excellent flame and track resistant material possessing outstanding electrical and mechanical properties. The 2000 Series' good dielectric strength and low shrink allow close dimensional control. Key features include: Rated UL 94 V0 @1.5mm. UL file number **E80533**

General Material Properties		
Property (Test Method)	Value	Units
Density (ASTM D792)	1.8-1.9	g/cm ³
Mold Shrinkage (ASTM D955)	0.0005-0.004	in/in
Water Absorption (ASTM D570)	0.14	%
Barcol Hardness (ASTM D2583)	35-45	Barcol Units

Mechanical Material Properties (Net Shape Molded Coupons)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	4,500-5,500	30-35	psi (MPa)
Flexural Strength (ASTM D790)	13,000-16,000	90-110	psi (MPa)
Flexural Modulus (ASTM D790)	1.3-1.6 x 10 ⁶	9.0-11	psi (GPa)
Compressive Strength (ASTM D695)	17,000-19,000	120-130	psi (MPa)
Shear Strength (ASTM D732)	6,000-7,000	40-50	Psi (MPa)
Notched Izod Impact (ASTM D256)	4-6	215-320	ft-lb/in (J/m)

Thermal and Electrical Material Properties			
Property (Test Method)	Value (US)	Value (Metric)	Units
Flammability (UL 94 V0)	Pass 0.06	Pass 1.5	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)	320+	12.6	Volts/mil (kV/mm)
Arc Track Resistance (ASTM D495)	185+	185+	Seconds
Incline Plane Tracking (ASTM D2303-85)	1000+	1000+	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:

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