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/cm3
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 106	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

Contact Us:

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