

Material Series: MB7000

SERIES DESCRIPTION & APPLICATION

MB7000 series is highly engineered product designed for extreme heat exposure. This material has an elevated RTI of up to 200° C. Applications include HVAC, Electrical, and other areas where high heat exposure are likely to occur. Key features include: Industry leading RTI, excellent electrical properties, and comes in various colors.

General Material Properties		
Property (Test Method)	Value	Units
Density (ASTM D792)	1.95-2.00	g/cm ³
Mold Shrinkage (ASTM D955)	0.0005-0.002	in/in
Water Absorption (ASTM D570)	0.15<	%
Hardness, Barcol (ASTM D2583)	40-50	Barcol Units

Mechanical Material Properties (Net Shape Molded Coupons)			
Property (Test Method)	Value (US)	Value (Metric)	Units
Tensile Strength (ASTM D638)	5,000-9,000	35-60	psi (MPa)
Tensile Modulus (ASTM D638)	1.8 x 10 ⁶	12.4	psi (GPa)
Flexural Strength (ASTM D790)	15,0000-20,000	100-140	psi (MPa)
Flexural Modulus (ASTM D790)	1.9 x 10 ⁶	13.1	psi (GPa)
Notched Izod Impact (ASTM D256)	4-8	200-425	ft-lb/in (J/m)

Thermal and Electrical Material Properties			
Property (Test Method)	Value (US)	Value (Metric)	Units
Flammability (UL 94 V-1) RD, BK	Pass 0.16	Pass 4.0	in (mm)
Flammability (UL 94 V-0) All Colors	Pass 0.24	Pass 6.0	in (mm)
UL RTI Elec, Imp, Str (UL 746B)		180,170,200	°C
Dielectric Strength (ASTM D149)	560	22	Volts/mil (kV/mm)
Arc Track Resistance (ASTM D495)	190+	190+	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:

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