

Material Series: MB5500

SERIES DESCRIPTION & APPLICATION

MB5500 provides a superior heat resistant material for your application with a UL RTI rating of 160°C-170°C.

Key features include: 160°C/170°C RTI as well as rated UL 94 5VA @2.3mm. UL file number **E80533**

General Material Properties		
Property (Test Method)	Value	Units
Density (ASTM D792)	1.75-1.80	g/cm ³
Mold Shrinkage (ASTM D955)	0.0005-0.003	in/in
Water Absorption (ASTM D570)	0.12	%
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)	6,000-8,000	40-55	psi (MPa)
Flexural Strength (ASTM D790)	17,000-19,000	115-130	psi (MPa)
Flexural Modulus (ASTM D790)	1.6-1.8 x 10 ⁶	11-12.5	psi (GPa)
Compressive Strength (ASTM D695)	13,000-15,000	90-100	psi (MPa)
Notched Izod Impact (ASTM D256)	8-10	425-530	ft-lb/in (J/m)

Thermal and Electrical Material Properties			
Property (Test Method)	Value (US)	Value (Metric)	Units
Flammability (UL 94 5VA)	Pass 0.09	Pass 2.3	in (mm)
Flammability (UL 94 V-0)	Pass 0.05	Pass 1.3	in (mm)
Heat Deflection Temperature (ASTM D648)	>500	>260	°F (°C)
UL RTI Elec, Imp, Str (UL 746B)	-	160, 160, 170	°C
Dielectric Strength (ASTM D149)	350	13.8	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:

CORPORATE HEADQUARTERS

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