



Material Series: MB3000-20NY

SERIES DESCRIPTION & APPLICATION

MB3000-20NY is a superior chemical-resistant material with excellent flame and track resistance. When these characteristics are critical to your application, the 3000 Series delivers. Key features include: Non-yellowing as well as rated UL 94 5VA @1.5mm. UL file number **E80533**

General Material Properties		
Property (Test Method)	Value	Units
Density (ASTM D792)	1.75-1.85	g/cm ³
Mold Shrinkage (ASTM D955)	0.0005-0.003	in/in
Water Absorption (ASTM D570)	0.12	%
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	40-60	psi (MPa)
Flexural Strength (ASTM D790)	18,000-21,000	125-145	psi (MPa)
Flexural Modulus (ASTM D790)	1.8-1.9 x 10 ⁶	12.4-13.1	psi (GPa)
Compressive Strength (ASTM D695)	14,000-16,000	95-110	psi (MPa)
Shear Strength (ASTM D732)	8,000-9,000	55-60	Psi (MPa)
Notched Izod Impact (ASTM D256)	8-14	425-750	ft-lb/in (J/m)

Thermal and Electrical Material Properties			
Property (Test Method)	Value (US)	Value (Metric)	Units
Flammability (UL 94 5VA)	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)	360+	14.2+	Volts/mil (kV/mm)
Arc Track Resistance (ASTM D495)	185+	185+	Seconds
Incline Plane Tracking (ASTM D2303-85)	1000+	1000+	Minutes
White Color Change Under 300°F for 300HR	1.2-1.7	-	ΔE
Bisque Color Change Under 300°F for 300HR	1-1.5	-	ΔE

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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