



Material Series: MB1000-25

SERIES DESCRIPTION & APPLICATION

MB1000-25 is an easily customized, general purpose material. The 1000 Series is designed for Powder Coating and Electrostatic painting applications. Key features include: Moderate strength and excellent electrical properties.

| General Material Properties | | |
|------------------------------|--------------|-------------------|
| Property (Test Method) | Value | Units |
| Density (ASTM D792) | 1.7-1.9 | g/cm ³ |
| Mold Shrinkage (ASTM D955) | 0.0005-0.002 | in/in |
| Water Absorption (ASTM D570) | 0.13 | % |
| 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) | 7,000-10,000 | 50-70 | psi (MPa) |
| Flexural Strength (ASTM D790) | 19,000-22,000 | 130-150 | psi (MPa) |
| Flexural Modulus (ASTM D790) | 1.5-1.7 x 10 ⁶ | 10.3-11.7 | psi (GPa) |
| Compressive Strength (ASTM D695) | 20,000-24,000 | 140-165 | psi (MPa) |
| Shear Strength (ASTM D732) | 7,000-9,000 | 50-60 | Psi (MPa) |
| Notched Izod Impact (ASTM D256) | 7-10 | 370-535 | ft-lb/in (J/m) |

| Thermal and Electrical Material Properties | | | |
|---|------------|----------------|-------------------|
| Property (Test Method) | Value (US) | Value (Metric) | Units |
| Flammability (UL 94 HB) *NOT UL LISTED* | Pass 0.06 | Pass 1.5 | in (mm) |
| Heat Deflection Temperature (ASTM D648) | >500 | >260 | °F (°C) |
| UL RTI Elec, Imp, Str (UL 746B) *NOT UL LISTED* | - | 130, 130, 130 | °C |
| Dielectric Strength (ASTM D149) | 355 | 14.0 | Volts/mil (kV/mm) |
| Arc Track Resistance (ASTM D495) | 140+ | 140+ | Seconds |
| Incline Plane Tracking (ASTM D2303-85) | 500+ | 500+ | 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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Revised: 01/08/2021