



Material Series: MB6000

SERIES DESCRIPTION & APPLICATION

A Low Profile, Automotive Grade Polyester Molding Compound. This material is capable to provide an excellent molded surface. Typical application includes Automotive Headlamps

| General Material Properties | | |
|------------------------------|--------------------|--------------|
| Property (Test Method) | Value | Units |
| Specific Gravity (ASTM D792) | 1.9-2.05 | |
| Mold Shrinkage (ASTM D955) | +0.001 to (-)0.002 | in/in |
| Water Absorption (ASTM D570) | 0.1-0.3 | % |
| Barcol Hardness (ASTM D2583) | 40-60 | 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 | 34-62 | psi (MPa) |
| Flexural Strength (ASTM D790) | 15,000-23,000 | 100-158 | psi (MPa) |
| Flexural Modulus (ASTM D790) | 1.6 -2.2 x10 ⁶ | 11-15 | psi (GPa) |
| Compressive Strength (ASTM D695) | 16,000-22,000 | 110-150 | psi (MPa) |
| Notched Izod Impact (ASTM D256) | 3-7 | 160-370 | ft-lb/in (J/m) |

| Thermal and Electrical Material Properties | | | |
|--|------------|----------------|---------|
| Property (Test Method) | Value (US) | Value (Metric) | Units |
| Heat Deflection Temperature (ASTM D648) | >500 | >260 | °F (°C) |

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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