

Altuglas® MI-7T

PMMA

Altuglas International

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|----------------------------------------------------|------------------|-------------------|----------------------|
| ISO Data | | | |
| Melt flow index, MFI | 1.8 | g/10min | ISO 1133 |
| Temperature | 230 | °C | - |
| Load | 3.8 | kg | - |
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.004 | mm/mm | ASTM D 955 |
| Mechanical properties | | | |
| ISO Data | | | |
| Tensile Strength | 48 | MPa | ISO 527 |
| Strain at break | 30 | % | ISO 527 |
| Flexural modulus, 23°C | 2400 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 35 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 3 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C | 3.5 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Rockwell Hardness | M 68 | - | ASTM D 785 |
| Thermal properties | | | |
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 93 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 98 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 103 | °C | ISO 306 |
| ASTM Data | | | |
| UL 94 Flame rating | HB | - | UL 94 |
| Coefficient of Thermal Expansion, MD | 80 | E-6/K | ASTM D 696 |
| Electrical properties | | | |
| ASTM Data | | | |
| Dielectric Strength, Short Time | 17.7 | kV/mm | ASTM D 149 |
| Dissipation Factor, 1 MHz | 0.04 | - | ASTM D 150 |
| Dielectric Constant, 60 Hz | 3.8 | - | ASTM D 150 |
| Surface Resistivity | 1E14 | Ohm | ASTM D 257 |
| Volume Resistivity | >1E15 | Ohm*cm | ASTM D 257 |
| Optical properties | | | |
| ASTM Data | | | |
| Haze | 1.5 | % | ASTM D 1003 |
| Light Transmittance | 92 | % | ASTM D 1003 |
| Other properties | | | |
| Humidity absorption | 0.33 | % | Sim. to ISO 62 |
| Density | 1170 | kg/m ³ | ISO 1183 |
| Processing Recommendation Injection Molding | | | |
| Pre-drying - Temperature | 85 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Melt temperature | 225 - 235 | °C | - |
| Mold temperature | 70 - 80 | °C | - |

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat, Transparent