Plexiglas®
where original ideas take shape

Resin

# Plexiglas® MI-7T acrylic resin

| PROPERTIES | VALUE | UNITS | TEST METHOD |
|---|---|---|---|
| Physical | | | |
| Melt Flow Rate (230°C / 3.8 kg) | 1.8 | g / 10 min | ASTM D1238 |
| Specific Gravity | 1.17 | | ASTM D792 |
| Mold Shrinkage | 0.3-0.6 | % | ASTM D955 |
| Water Absorption (24 hr. immersion) | 0.3 | % weight gain | ASTM D570 |
| Mechanical | | | |
| Tensile Strenght @ Maximum | 8,000 | PSI | ASTM D638 |
| Tensile Elongation @ Break | 35 | % | " |
| Tensile Modulus | 350,000 | PSI | " |
| Flexural Strength, maximum (Yield) | 12,600 | PSI | ASTM D790 |
| Flexural Modulus | 350,000 | PSI | ASTM D790 |
| Notched Izod Impact(73°F/23°C) | 0.6 | ft-lb/in notch | ASTM D256 |
| Rockwell Hardness | 68 | M | ASTM D785 |
| Thermal | | | |
| HDT (0.455 MPa; annealed)[1] | | °F | ASTM D648 |
| HDT (1.82 MPa; annealed)[1] | 195 | °F | ASTM D648 |
| Vicat Softening Point (50°C/hr; 10N) | 226 | °F | ASTM D1525 |
| Vicat Softening Point (50°C/hr; 50N) | 207 | °F | ASTM D1525 |
| Thermal Conductivity | 1.3 | BTU/hr*ft2*F/in | ASTM C177 |
| Optical | | | |
| Refractive Index (ND @ 73°F) | 1.49 | | ASTM D542 |
| Luminous Transmittance (0.125"/3.2 mm.) | 92 | % | ASTM D1003 |
| Haze (0.125 in./3.2 mm.) | <2 | % | ASTM D1003 |
| | | | |
| ASTM Classification | | PMMA 0221V1 | ASTM D788 |

Data given are average values and should not be used for specification purposes.

1. Annealing Cycle: 4hrs @ 80°C

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