

Resin

Plexiglas[®] V052i acrylic resin

| PROPERTIES | VALUE | UNITS | TEST METHOD |
|---|---------|------------------------------|-------------|
| Physical | | | |
| Melt Flow Rate (230°C / 3.8 kg) | 3.0 | g / 10 min | ASTM D1238 |
| Specific Gravity | 1.18 | | ASTM D792 |
| Mold Shrinkage | 0.3-0.6 | % | ASTM D955 |
| Water Absorption (24 hr. immersion) | 0.4 | % weight gain | ASTM D570 |
| Mechanical | | | |
| Tensile Strength @ Maximum | 9,200 | PSI | ASTM D638 |
| Tensile Elongation @ Break | 22 | % | " |
| Tensile Modulus | 410,000 | PSI | " |
| Flexural Strength, maximum (Yield) | 14,000 | PSI | ASTM D790 |
| Flexural Modulus | 420,000 | PSI | ASTM D790 |
| Notched Izod Impact(73°F/23°C) | 0.4 | ft-lb/in notch | ASTM D256 |
| Rockwell Hardness | 84 | M | ASTM D785 |
| Thermal | | | |
| HDT (0.455 MPa; annealed) ¹ | 217 | °F | ASTM D648 |
| HDT (1.82 MPa; annealed) ¹ | 207 | °F | ASTM D648 |
| Vicat Softening Point (50°C/hr; 10N) | 230 | °F | ASTM D1525 |
| Vicat Softening Point (50°C/hr; 50N) | 216 | °F | ASTM D1525 |
| Thermal Conductivity | 1.3 | BTU/hr*ft ² *F/in | ASTM C177 |
| Optical | | | |
| Refractive Index (ND @ 73°F) | 1.49 | | ASTM D542 |
| Luminous Transmittance (0.125"/3.2 mm.) | 91 | % | ASTM D1003 |
| Haze (0.125 in./3.2 mm.) | <2 | % | ASTM D1003 |
| | | | |
| ASTM Classification | | PMMA 0211V3 | ASTM D788 |

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

1. Annealing Cycle: 4hrs @ 95°C

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