

Typical Physical Properties
Plexiglas® V052i
Acrylic Resin

| PROPERTIES | VALUE | 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 % | ASTM D638 |
| Tensile Modulus | 410,000 psi | ASTM D638 |
| Flexural Strength, maximum | 14,000 psi | ASTM D790 |
| Flexural Modulus | 420,000 psi | ASTM D790 |
| Notched Izod (73°F/23°C) | 0.4 ft-lb/in notch | ASTM D256 |
| Rockwell Hardness | 84 M | ASTM D785 |
| THERMAL | | |
| HDT (0.455 MPa; annealed) | 217 F | ASTM D648 |
| HDT (1.82 MPa; annealed) | 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 (N _D @ 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 |

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See MSDS for Health & Safety Considerations.

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