

Plexiglas® G

Acrylic Sheet

Premium architectural-grade Plexiglas® G cell-cast acrylic sheet satisfies the requirements of nearly all high performance applications. Colorless Plexiglas G acrylic sheet carries a 10-year limited warranty on light transmission. It is available in a broad range of colors and patterns.

- High Performance Cell-Cast Acrylic Sheet
- Exceptional Optical Clarity
- Weather Resistant
- Lightweight – Half the weight of glass
- Formable to complex shapes
- Machinable

Applications:

Plexiglas G acrylic sheet is a versatile material that has many residential, commercial, industrial and professional uses. The listing below is merely a sample.

- Architectural glazing
- Optical lenses
- Pediatric incubators
- Transparent tanks – aquariums
- Merchandising displays
- Hockey rinks
- Industrial and school glazing
- Skylights
- Furniture
- Outdoor signs

Availability:

Thicknesses

- 0.118" to 2.0"

Sheet Sizes

- 48", 60" and 72" by 96"
(4', 5' and 6' by 8')

Colors

- 34 transparent translucent and opaque colors

Day/Night Colors

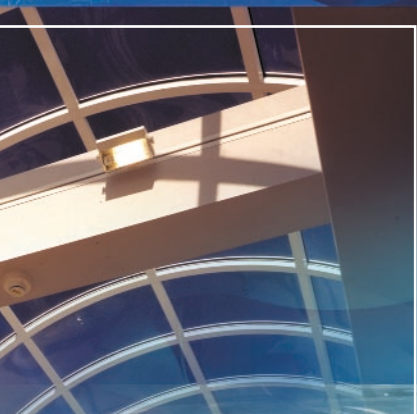
- 3163 Black/White
- 3179 Blue/White

Patterns

- P95 matte
- P4 pyramid
- P5 rippled

Specialty Grades

- UF-3 and UF-4 ultraviolet filtering
- 1.25" Plexiglas SB security barrier



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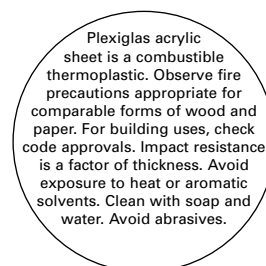
Average Physical Properties of Plexiglas G¹

| PROPERTY | ASTM Method | UNITS | Plexiglas G |
|--|-------------|---------------------------|-------------|
| Thickness, nominal | | in | 0.236" |
| Specific gravity | D792 | N/A | 1.19 |
| OPTICAL | | | |
| Refractive index | D542 | N/A | 1.49 |
| Light transmittance and haze "as received" | D1003 | | |
| Parallel | | % | 91* |
| Total | | % | 92* |
| Haze | | % | 1* |
| MECHANICAL | | | |
| Tensile strength (.25"specimen - 0.2"/min) | D638 | | |
| Maximum | | psi | 10,500 |
| Rupture | | psi | 10,500 |
| Elongation, maximum | | % | 4.9 |
| Elongation, rupture | | % | 4.9 |
| Modulus of elasticity | | psi | 450,000 |
| Poisson's ratio | | | 0.35 |
| Flexural strength (span depth ratio 16, 0.1"/min) | | D790 | |
| Maximum | | psi | 16,000 |
| Rupture | | psi | 16,000 |
| Deflection, maximum" | | in | 0.6 |
| Deflection, rupture" | | in | 0.6 |
| Modulus of elasticity | | psi | 450,000 |
| Shear strength | D732 | psi | 9000* |
| Shear modulus | | psi | 167,000 |
| Impact strength | | | |
| Charpy unnotched @73°F | D256 | ft-lb/ 1/2" x 1" sect. | 7.0 |
| Izod milled notch @73°F | | ft-lb/in. of notch | 0.3 |
| Rockwell Hardness | D785 | - | M-100* |
| THERMAL | | | |
| Hot forming temperature | | °F | 290-360 |
| Deflection temperature under (flexural) load | D648 | | |
| 3.6°F/min-264 psi | | °F | 205* |
| Maximum recommended continuous service temperature | | °F | 180-200 |
| Coefficient of linear thermal expansion | | | |
| 60°F | R&H P4A | in/in/° X 105 | 3.9 |
| Coefficient of thermal conductivity | Cenco-Fitch | BTU/(hr)(sq ft)(°F/in) | 1.3 |
| Specific heat at 77°F | | BTU/(lb)(°F) | 0.35 |
| MISCELLANEOUS | | | |
| Horizontal burning test avg. | D635 | cm/min | 2.8 |
| Burning rate | | (in/min) | (1.1*) |
| Smoke density | D2843 | % | 4-10 |
| Flammability classification | | | 94HB |
| Odor | | | None |
| Taste | | | None |

* This value will change with thickness. The value given is for the thickness in the column heading.

¹ Values reported are averages and should not be used for specification purposes.

For a complete listing of physical properties, go to www.plexiglas.com or call your local sales representative and ask for a copy of the Plexiglas General Information and Physical Properties Brochure.



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See MSDS for Health & Safety Considerations

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