



TECHNICAL DATA SHEET

PLEXIGLAS® G P-95 PLEXIGLAS® G DP-95

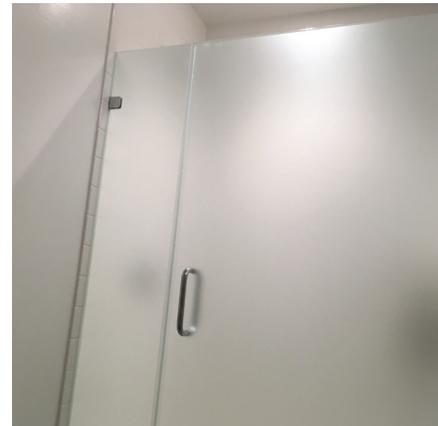
Premium Cell-Cast Acrylic with a Modern Matte Finish

Specifically created for designers who manufacture POP displays, showcases, signage, and decorative furnishings, PLEXIGLAS® G P-95 acrylic sheet and PLEXIGLAS® G DP-95 acrylic sheet provide a distinctive matte finish that effectively complements any application. When used to display other products, PLEXIGLAS® G P-95 and PLEXIGLAS® G DP-95 acrylic sheet offers the ability to heighten any design while keeping the focus on the items being showcased.

This high-performance cell-cast acrylic sheet is available with the matte finish on either one side of the sheet (PLEXIGLAS® G P-95) or both sides of the sheet (PLEXIGLAS® G DP-95), and can be fabricated without altering the optical or mechanical properties of the product. It is a versatile material with many residential, commercial, industrial, and professional uses.

PLEXIGLAS® G P-95 and PLEXIGLAS® G DP-95 acrylic sheet maintain all the attributes of the premium grade PLEXIGLAS® G, with these additional qualities:

- A distinct matte finish to diffuse surface reflections and hides imperfections
- Resists fingerprints, scratches, and smudges
- Lightweight and weather resistant



COLOR OFFERINGS*

PLEXIGLAS® G acrylic sheet is available in numerous colors with a finish of either the one-sided pattern P-95 or the double-sided pattern DP-95. These colors options include the majority of the PLEXIGLAS® G colors, as well as custom color-matching possibilities, with the most popular options shown below:

| | | |
|-----------|---|------|
| Colorless |  | |
| Green |  | 3030 |
| Blue |  | 3120 |

PRODUCT OFFERINGS**

PLEXIGLAS® G P-95 acrylic sheet and PLEXIGLAS® G DP-95 acrylic sheet is available in a variety of sizes and thicknesses, with custom offerings available upon request.

| Thickness | Sheet Size |
|-----------|------------|
| 0.118" | 48" x 96" |
| 0.177" | 60" x 96" |
| 0.236" | 72" x 96" |
| 0.354" | 49" x 97" |
| 0.472" | 61" x 97" |
| 0.625" | 73" x 97" |
| 0.708" | |

TYPICAL VALUES

| | Test Method | Unit | Value |
|---|--|-----------------------------------|--|
| Physical properties | | | |
| Nominal thickness for data unless otherwise noted | - | in | 0.236" |
| Specific gravity | ASTM D-792 | - | 1.19 |
| Rockwell hardness | ASTM D-785 | M scale | 100 |
| Optical properties | | | |
| Refractive index (ND @ 73°F (23°C)) | ASTM D-542 | - | 1.49 |
| Luminous transmittance ¹ | ASTM D-1003 | % | 90.0 |
| Mechanical properties | | | |
| Tensile strength, maximum | ASTM D-638 | psi | 10,500 |
| Tensile strength, yield | ASTM D-638 | psi | 10,500 |
| Tensile elongation | ASTM D-638 | % | 4.9 |
| Tensile modulus of elasticity | ASTM D-638 | psi | 450,000 |
| Flexural strength, maximum | ASTM D-790 | psi | 16,000 |
| Flexural modulus of elasticity | ASTM D-790 | psi | 450,000 |
| Shear strength, yield ¹ | ASTM D-732 | psi | 9,000 |
| Shear modulus | ASTM D-732 | psi | 167,000 |
| Notched izod impact @ 73°F (23°C) | ASTM D-256 | ft-lb/in | 0.3 |
| Un-notched charpy @ 73°F (23°C) | ASTM D-256 | ft-lb/0.5"x1" section | 7.0 |
| Thermal properties | | | |
| Deflection temperature under Flexural Load @ 264psi – unannealed ¹ | ASTM D-648 | °F | 205 |
| Coefficient of thermal expansion at 60°F | ASTM E-831 | in/in/°Fx10 | 3.9 |
| Coefficient of thermal conductivity | ASTM-C-177 | BTU/(hr)(ft ²)(°F/in) | 1.3 |
| Specific heat capacity at 77°F | N/A | BTU/(lb°F) | 0.35 |
| Maximum recommended continuous service temperature | N/A | °F | 180 - 200 |
| Recommended thermoforming temperature | N/A | °F | Not recommended |
| Craze Resistance properties | | | |
| Constant stress craze resistance, IPA ³ | Modified ARTC Method Mil P-6997 | psi | 2,100 |
| Constant stress craze resistance, aromatic/alcohol blend ³ | Modified ARTC Method Mil P-6997 | psi | 1,700 |
| Flammability ² & specification compliance properties | | | |
| Horizontal burn rate ^{1,2} | ASTM D-635 | in/min | < 1.0 |
| Smoke density | ASTM D-2843 | % | 1.0 |
| Self ignition temperature | ASTM D-1929 | °F | 860 |
| Plastics component - QMFZ2.E39437 Flammability Classification | UL 94 | - | 94HB (≥ 0.060") |
| PPlastics component - QMFZ2.E39437 - Outdoor Suitability | UL 746C | - | f1 (≥ 0.060" Colorless) f2 (≥ 0.060" ALL) |
| International building code | IBC 2606.4 | - | CC2 (0.118" – 0.944") |
| International residential code | IRC 308.3 | - | CC2 (> 0.125") |
| American national standard for safety glazing | ANSI Z97.1 | - | PASS (≥ 0.080") |
| FMVSS 205 – federal motor vehicle safety glazing | ANSI Z26.1 | - | AS-5, AS-6, AS-7 |
| FAA (FAR) section 25.853 | Appx F, Part 1, Paragraphs (a)(1)(iv), Procedure (b)(5) 15 second horizontal burn | - | PASS (0.118" – 0.472") |
| Standard specification for PMMA acrylic plastic sheet | ASTM D-4802 | - | Category A-1, Finish 2 |