



Exceptional Grade for
Broad-Range Applications

Plexiglas®
where original ideas take shape

Plexiglas® G

CELL-CAST ACRYLIC SHEET

Premium-grade architectural 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.

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

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

Patterns

- Plexiglas® G P-95 acrylic sheet
- Plexiglas® G DP-95 acrylic sheet

Specialty Grades

- Ultraviolet Filtering - Plexiglas® G-UF3 acrylic sheet, Plexiglas® G-UF4 acrylic sheet
- Ultraviolet Transmitting - Plexiglas® G-UVT acrylic sheet, Plexiglas® G-UVT EF acrylic sheet
- Impact Modified Plexiglas® G-IG acrylic sheet

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CELL-CAST ACRYLIC SHEET

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		
Total		%	92 ²
Haze		%	1 ²
MECHANICAL			
Tensile strength (.25"specimen - 0.2"/min)	D638		
Maximum		psi	10,500
Elongation, maximum		%	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
Deflection, maximum		in	0.6
Modulus of elasticity		psi	450,000
Shear strength	D732	psi	9,000 ²
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 ²
THERMAL			
Hot forming temperature		°F	290-360
Deflection temperature under (flexural) load	D648		
3.6°F/min-264 psi		°F	205 ²
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 ²)
Smoke density	D2843	%	4-10
Flammability classification			94HB

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.

² This value will change with thickness. The value given is for the thickness in the column heading.

THICKNESS

0.118"
0.125"
0.150"
0.157"
0.177"
0.187"
0.220"
0.236"
0.354"
0.472"
0.625"
0.708"
0.944"
1.500"
1.750"
2.000"

SHEET SIZE*

48" x 96"
49" x 97"
50" x 99"
51" x 100"
60" x 96"
61" x 97"
62" x 99"
63" x 100"
72" x 96"
73" x 97"
74" x 99"
75" x 100"

*Custom lengths are available with minimum requirements.

COLOR OFFERING

Plexiglas® G acrylic sheet is available in more than 50 different colors. Visit our chips gallery at www.plexiglas.com/gallery to see our wide range of color offerings.

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® Acrylic Sheet General Information and Physical Properties brochure.

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Plexiglas® acrylic plastic is a combustible thermoplastic. Observe fire precautions appropriate for comparable forms of wood and paper. For building uses, check code approvals. Impact resistance is a factor of thickness. Avoid exposure to heat or aromatic solvents. Clean with soap and water. Avoid abrasives.

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