PLEXIGLAS®



PLEXIGLAS ACRYLIC SHEET PRODUCTS





INTRODUCTION

PLEXIGLAS ACRYLIC SHEET

Light, strong, and crystal clear, Plexiglas acrylic sheet has forever changed the way people think about form, function and style.

So much so, that today architects, interior and exterior designers, and designers of graphics, exhibits, and point of purchase displays, can all find design options open to them that were unheard of just a few years ago.

One reason is the unparalleled Plexiglas acrylic sheet product line. No other manufacturer offers as wide a range of transparent, colorless transparent, translucent, and opaque colors, patterns, textures and thicknesses, or products that provide clarity, formability, impact and weather resistance.

PLEXIGLAS SHEET GRADES

Plexiglas MC, Altuglas International's most economical continuous process acrylic sheet, offers many high quality features identified with cast acrylic sheet. It now comes in 29 colors, and it is ideal for back-lit signs, displays, point-of-purchase items, building applications, and general fabricated parts.

Plexiglas G is a cell-cast process acrylic sheet that satisfies the requirements of nearly all high-performance applications. It is available in a variety of colors and patterns and in a wide range of thicknesses.

Plexiglas Q is a new, patented acrylic sheet developed specifically to meet the stringent requirements of plastic sheet materials for use in the quantity and custom sign markets. Since colorless Plexiglas Q sheet is a material with excellent clarity, weatherability, and enhanced solvent-craze resistance. It is the ideal material to add to your own color, using suggested painting techniques.

Plexiglas ELiT (Edge Lit Technology) acrylic sheet product is designed for use in point-of-purchase displays, illuminated signage and lightboxes. However, as a new sign substrate that acts as a light source, designers will soon use it in many new and original applications, such as slim line transportation showcases, double-sided shop window displays and new possibilities for the design of information and direction systems in shopping centers, hotels, and office buildings.

Patented Plexiglas ELiT offers a technological advantage: Light focused on the edge of the sheet is transmitted and evenly diffused to both faces of the sheet.

Plexiglas ELiT allows the lightbox manufacturer to conceal the fluorescent tubes in the profile trim, rather than place them behind the sheet. This eliminates the need for bulky display boxes used for illuminated designs and replaces them with slimmer designs. Lightweight and very economical lightboxes can thus be constructed. In addition, Plexiglas ELiT sheet can be curved to create complex and original shapes.

PLEXIGLAS FROSTED

Plexiglas Frosted acrylic sheet is lightweight and uniquely finished. It is the perfect material for backdrops, columns, lighting diffusers, illuminated signage, shelving, tabletops, visual displays and more. Unlike frosted glass, Plexiglas Frosted acrylic sheet is durable and shatterproof. It shrugs off fingerprints, scratches and smudges, too. The unique frosted look isn't just on the top and bottom surface—it's engineered throughout the entire acrylic structure. It retains its frosted appearance even after thermoforming.

PLEXIGLAS FROSTED PRODUCT OFFERING

Plexiglas Frosted acrylic sheet is manufactured by a proprietary continuous process known as melt calendering and is available in Colorless and 3167 Light Green.

Standard Offering: Colorless and 3167 Light Green

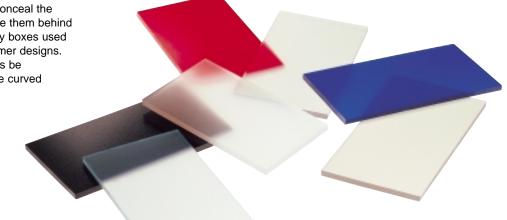
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Thickness	Sheet Size		
0.080" (2mm)	48" x 96"		
0.118" (3mm)	60" x 96"		
0.177" (4.5mm)	63" x 100"		
0.220" (5.5mm)	72" x 96"		
0.236" (6mm)	72" x 100"		
0.354" (9mm)	75" x 100"		
0.472" (12mm)			

Additionally, Plexiglas Frosted sheet is now available in a standard thickness of 0.118"(3mm) and a sheet size of 51" x 100" in the following colors:

Color Offering

3160 Light Gray	3164 Dark Red		
3161 Light Bronze	3165 Black Opaque		
3162 Dark Blue	3166 Medium Blue		
3163 Light Blue	W3172 White Translucent		

Other thicknesses and sizes are subject to minimum order requirements and are quoted upon request.



PLEXIGLAS® Acrylic Sheet

STANDARD TRANSLUCENT COLORS

Translucent Plexiglas MC acrylic sheet colors transmit light that is diffused, so that an object behind the sheet cannot be clearly distinguished. That luminous quality makes translucent sheet ideal for most sign applications.

In selecting translucent sheet, it is important to note that the percentage of diffused light through two different sheet thicknesses of the same color will be approximately the same.

Standard Plexiglas Translucent Sheet Colors

Total Luminous Transmittance, %, C.I.E. Source C Data (6500°K Average Daylight)					
Colorless	92%				
2283 Red	11				
2415 Red	11				
2662 Red	3				
2157 Red	2				
2793 Red	3				
2119 Orange	7				
2037 Yellow	28				
2016 Yellow	19				
2465 Yellow	24				
2146 Ivory	35				
2108 Green	2				
2030 Green	9				
2051 Blue	20				
2648 Blue	5				
2114 Blue	2				
2050 Blue	1				

STANDARD WHITE TRANSLUCENT DENSITIES

Our range of standard white translucent densities provides a wide selection of varying percentage of light transmittance, diffusion, and lamp hiding power. As a result, our 2000 series satisfies all basic lighting requirements, while our 7000 series is perfect for signs.

Unlike the colored sheet counterparts, white translucent densities vary in light transmittance with the thickness of the sheet. Therefore, a 0.236" (6mm) thick sheet will transmit appreciably less light than a 0.118" (3mm) thick sheet of the same color number.





Standard Plexiglas White Translucent Sheet Colors

Total Luminous Transmittance, % C.I.E. Source C Data (6500°K Average Daylight)

Plexiglas Grade	White tI #	.118" (3.0 mm)	.177" (4.5 mm)	.236" (6.0 mm)	.354" (9.0 mm)	.472" (12.0 mm)
G	W2067	71%	61%	52%	NA	NA
G/MC	W2447	50	42	35	27	19
G	W7138	41	33	26	NA	NA
G/MC	W7328	31	23	17	NA	NA
G	W7420	22	15	11	NA	NA
G	W7508	9	6	4	NA	NA
MC	3015	3	3	3	NA	NA

NA - Not available

Note: Transmittance values approximate due to variation in samples and measuring instruments.

STANDARD PLEXIGLAS SHEET PATTERNS

Unlike their previously highlighted smooth counterparts, standard patterns of Plexiglas acrylic sheet refract or bend transmitted light by means of various surface textures. That added texture provides decorative effects, diffuses annoying surface reflections, and allows privacy by eliminating see-through.

Surface textures in six patterns are available in colorless transparent sheets. Selected patterns are also available in transparent, translucent, and semi-opaque colors.

Standard Patterns/Descriptions

P-4 Prism (approx. 64/sq. in.)	one side
P-5 Ripple design	one side
P-12 Diamond prismatic	one side
DP-30 Stipple design	both sides
DP-32 Flair design	both sides
P-95 Matte finish (non-glare)	one side

For complete ranges of sizes and thicknesses of the various colors and patterns, contact Altuglas International and request Bulletin #PLA-3.

PLEXIGLAS® Acrylic Shee

Transmittance/Trichromatic Coefficient Chart of Transparent Colors

	C.I.E. Source A Data			C.I.E. Source C Data (6500°K Average Daylight)			
Plexiglas		Transmittance	Trichromatic Coefficient		Transmittance	Trichromatic Coefficient	
Grade	Color #	(%)	х	Υ	(%)	х	у
G/MC	2423 Red	9	0.711	0.289	5	0.709	0.290
G	2422 Amber	61	0.588	0.411	49	0.557	0.441
G	2208 Yellow	86	0.518	0.463	80	0.452	0.504
G	2111 Green	75	0.428	0.419	77	0.297	0.324
G	2069 Blue	50	0.361	0.393	56	0.234	0.269
G	2424 Blue	4	0.114	0.179	8	0.129	0.113
G/MC	2064 Gray	27	0.445	0.414	27	0.309	0.329
G/MC	2074 Gray	13	0.464	0.421	12	0.334	0.354

STANDARD TRANSPARENT COLORS

The Plexiglas acrylic sheet line of standard transparent colors provides a clear, "see-through" visibility. Here, applications can range from glazing for windows and transportation, electronic filters for CRT screens on computers, photographic dark room equipment, to a wide variety of displays and fixtures.

Transparent tints vary from color to color in light transmittance, but the transmittance of any single color is approximately equal for any sheet thickness.

FOR MORE INFORMATION CONTACT: 1-800-647-5569

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