



Outstanding image **quality** and **clarity** in rear-projection screens.

Plexiglas® Hi-Def™

ACRYLIC SCREEN

From the company with over 75 years of expertise in acrylics and a history of delivering superb quality and optical clarity, comes the latest innovation in rear projection screens, Plexiglas® Hi-Def™ acrylic screen. This high-performance screen offers great uniformity without hot spotting or dark corners and without color shift.

Plexiglas® Hi-Def™ acrylic screen* has been specifically designed for high-definition rear projection to realize outstanding image resolution, uniformity, and contrast. With great off-axis viewing angle and excellent ambient light rejection, you can enjoy a crisp image from any angle, from up-close or far away, even in ambient light.

These screens are produced using our patented technology in a proprietary process. Unlike optical screens with films applied to an acrylic or glass substrate, the multi-layer structure of Plexiglas® Hi-Def™ acrylic screen shields the internal image-capturing layer and protects it from scratching.

*Patent pending.

PLEXIGLAS®
BY ARKEMA

APPLICATIONS

- Rear projection screens
- Digital signage
- Command and control centers
- Simulation and training
- Showrooms and museums
- Trade shows and exhibits
- Casinos and amusement parks
- Corporate lobbies
- Learning institutions

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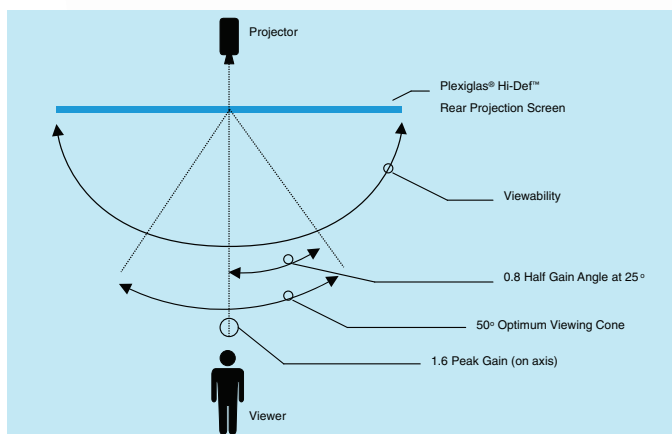
TYPICAL STANDARD PROPERTIES

PROPERTIES	TEST METHOD	UNITS	VALUE
PHYSICAL			
Nominal Thickness for data unless otherwise noted		in	0.236"
Specific Gravity	ASTM D-792	-	1.19
Rockwell Hardness	ASTM D-785	M scale	90
OPTICAL			
Refractive Index (ND @ 73°F)	ASTM D-542	-	1.49
Luminous Transmittance ^{1,2}	ASTM D-1003	%	> 60
On-axis Gain ¹ (0.236" thickness)	N/A	-	1.6
On-axis Gain ¹ (0.118" thickness)	N/A	-	3.9
Half Gain Angle	N/A	degrees	25
Specular Gloss ³ at 60°	ASTM D-523	-	> 35
MECHANICAL			
Tensile Strength, yield	ASTM D-638	psi	10,000 – 11,000
Tensile Modulus of Elasticity	ASTM D-638	psi	440,000-480,000
Flexural Modulus of Elasticity	ASTM D-790	psi	440,000-480,000
Notched Izod Impact @ 73°F (23°C)	ASTM D-256	ft-lb/in	0.3-0.35
THERMAL			
Coefficient of Thermal Expansion at 60°F	ASTM E-831	in / in / °F x 10 ⁻⁵	3.6
Maximum Recommended Continuous Service Temperature	N/A	°F	170 – 190
Recommended Thermoforming Temperature	N/A	°F	275 – 350

Data given are average values and should not be used for specification purposes.

1. This property will change with thickness. The value given is for the thickness indicated in the column heading unless otherwise noted.
2. Transmission value based on 2514 color
3. Measured on Non-Glare surface

VIEWING ANGLES



KEY FEATURES

■ Highest contrast ratio

Plexiglas® Hi-Def™ acrylic screen offers the highest contrast ratio of leading rear projection screen materials tested, producing crisp images even in ambient light.

■ Exceptional viewing angle

With great off-axis viewing angle and excellent ambient light rejection, you can enjoy a crisp image from any angle, from up-close or far away, even in ambient light.

■ Excellent uniformity

This high-performance screen delivers great uniformity without hot spots or dark corners and without color shift. You'll be amazed by the picture quality.

■ Oversize widescreens

We offer two standard sizes in 16:9 aspect ratio: 51" x 91" and 81" x 144". Or you can cut it to any size or shape and also thermoform it.

■ Durability

Since the screen medium is internal, you won't have to worry about scratching or damaging it.

■ Lightweight

Plexiglas® Hi-Def™ acrylic screens are half the weight of glass and can be used in stand alone frames or suspended from the ceiling with lightweight cables.

■ Style

The thin form factor emanates modern, high-end design. When suspended from the ceiling, the projected image appears to float in the air.

■ Suitable for touch screen

The screen can be used with touch screen film to create interactive displays for exhibits, museums, POPs, and other venues.

STANDARD OFFERING

Thickness	Color	Surface Finish	SHEET SIZE
0.118"	2514	Non-Glare	
0.236"	2514	Non-Glare	

SHEET SIZE

81" x 144"

51" x 91"

For more information about Plexiglas® rear projection screens, please visit us at www.plexiglas.com/projectionscreens

Plexiglas® Hi-Def™ acrylic screens are produced only by Altuglas International, Arkema Inc.

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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