

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

Plexiglas[®]
where original ideas take shape

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 or 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.

APPLICATIONS

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

Plexiglas® Hi-Def™

ACRYLIC SCREEN

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

Lightweight

Plexiglas® Hi-Def™ 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 emanates modern, high-end design. When suspended from the ceiling, the projected image appears to float in the air.

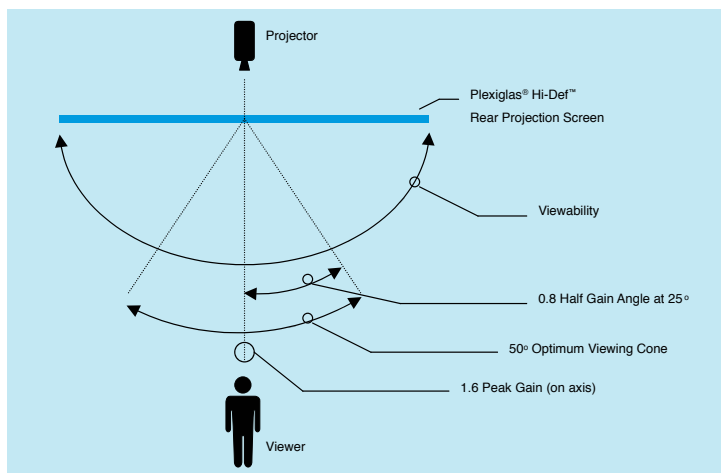
Suitable for touch screen

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

STANDARD OFFERING

THICKNESS	SHEET SIZE
0.236"	81" x 144"
0.236"	51" x 91"

VIEWING ANGLES



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

PROPERTIES OF PLEXIGLAS® HI-DEF™ ACRYLIC SCREEN

TYPICAL PROPERTY (ASTM STANDARD)	UNITS	PLEXIGLAS® HI-DEF™
OPTICAL		
On-axis Gain	-	1.6
Half gain angle	Degrees	25
Transmission	%	>60%
Gloss		
20 Degrees	-	>80
60 Degrees	-	>87
85 Degrees	-	99
MECHANICAL		
Tensile Modulus (D638)	psi	440,000-480,000
Yield Stress (D638)	psi	10,000-11,000
Flexural Modulus (D790)	ft-lb/ 1/2" by 1" section	440,000-480,000
Impact Properties (Izod, milled notch, 73° F) (D256)	ft-lb/in of notch	0.3-0.35
MISCELLANEOUS		
Specific Gravity (D792)		1.19
Rockwell Hardness (M-scale) (D785)	-	90

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

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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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