

### Plexiglas® Hi-Def™

Plexiglas® Hi-Def™ acrylic screens represent the leading edge in diffusion rear-projection screen performance.

With the widest possible viewing angle (approaching 180°) and the highest contrast ratio of all diffusion screen materials available. Plexiglas® Hi-Def™ acrylic screens deliver whiter whites, startling image resolution and clarity.

Its multi-layer structure protects the diffusion layer from damage while offering exceptional projection performance, including excellent screen uniformity, contrast ratio, and image resolution. Images are visible from any angle, up-close and far away without hot spots or dark corners. No other material commands viewers' attention like Plexiglas®Hi-Def™ acrylic screen.

### APPLICATIONS

- In-store displays and shopping malls
- Hotel lobbies and meeting rooms
- Corporate lobbies and boardrooms
- Houses of worship
- Sports arenas
- Trade shows and exhibitions
- Museums
- Control rooms and command centers
- Learning institutions
- Theaters and projection rooms
- Casinos and gaming halls

### SPECIFICATIONS

#### THICKNESS

0.236"

#### SHEET SIZES

81" x 144"

51" x 91"

Custom Sizes Available

### OPTICAL

On-axis Gain - 1.8  
Half gain angle >30°  
Transmission >60%

### Gloss

20 Degrees >80  
60 Degrees >87  
85 Degrees 99

### MECHANICAL

Tensile Modulus (D638) 440,000-480,000 psi  
Yield Stress (D638) 10,000-11,000 psi  
Flexural Modulus (D790)  
440,000-480,000 ft-lb/ 1/2" by 1" section  
Impact Properties (Izod, milled notch, 73° F)  
(D256) 0.3-0.35 ft-lb/in of notch

### MISCELLANEOUS

Specific Gravity (D792) 1.19  
Rockwell Hardness (M-scale) (D785) - 90

### Key Features

#### *Properties of Plexiglas® Hi-Def™*

- **Contrast ratio**  
Plexiglas® Hi-Def™ acrylic screen has the highest contrast ratio of all diffusion rear projection screens tested producing crisp images without graininess.
- **Exceptional viewing angle**  
With the impressive panoramic views, you can enjoy almost 180° viewability without hot spots or dark corners, from up-close or far away.
- **Larger sizes**  
We offer two standard sizes in 16:9 aspect ratio: 51" x 91" and a huge 81" x 144". Or, we can customize it to any size and thermoform it to any shape.

- **Durability**  
Since the diffusion layer is internal, you won't have to worry about scratching or damaging it, and it can be used outdoors.
- **Style**  
The thin form factor emanates modern, high-end design. When suspended from the ceiling, the projected image appears to float in the air.
- **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

### Care and Cleaning

1. Clean Plexiglas® acrylic with a soft damp cloth or chamois, wiping the surface gently.
4. Wash with mild soap or detergent and water. Avoid abrasives.
5. If it is necessary to dry the washed surface, use a clean damp chamois.

### Manufacturer Warnings

Plexiglas® Hi-Def™ 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.

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof.

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See MSDS for Health & Safety Considerations.

The Plexiglas® Hi-Def™ Screens are stocked in a range of standard sizes. Our Screens can also be custom cut to any size or shape specific to your needs. Our standard sizes are below:

### Screen Sizes 4:3 Aspect Ratio

64"	85"	101"	135"
51.25" x 38.44" x 0.236"			
68.33" x 51.25" x 0.236"			
81" x 60.75" x 0.236"			
108" x 81" x 0.236"			

### Screen Sizes 16:9 Aspect Ratio

59"	93"	104"	165"
51.25" x 28.82" x 0.236"			
81" x 45.56" x 0.236"			
91" x 51.25" x 0.236"			
144" x 81" x 0.236"			