

The Perfect Material
for a Perfect Tan

UV Retention

Chemical Resistance

Resistance to Yellowing

Plexiglas®
where original ideas take shape

Plexiglas® G-UVT Plexiglas® G-UVT EF

CELL-CAST ACRYLIC SHEET

Salon owners want tanning beds that remain clean, sturdy, and clear throughout their lifetime, and Plexiglas® G-UVT cell-cast acrylic sheet is specifically designed with this in mind. Using proprietary technology, Plexiglas® G-UVT acrylic sheet has passed more than 10,000 hours of severe UVA and UVB weathering tests without significant change in UV transmission and clarity.

- Reduces energy costs over time because of its excellent UV retention properties
- Increases production efficiency because of its great thermal and mechanical properties
- Reinforces your brand's promise on quality by staying clear and sturdy

A MODERN LOOK

Plexiglas® G-UVT acrylic sheet is available in a patterned finish that hides light sources without sacrificing clarity. This Plexiglas® P-95 acrylic sheet pattern creates a sleek, modern look while hiding fingerprints or smudges.

ENERGY EFFICIENCY

Plexiglas® G-UVT acrylic sheet is also offered as Plexiglas® G-UVT EF (Easy Forming) version, which is easily thermoformed using a lower temperature – decreasing heating cycle time and saving you money on energy costs during the manufacturing process.

Plexiglas® G-UVT Plexiglas® G-UVT EF

CELL-CAST ACRYLIC SHEET

AVERAGE PHYSICAL PROPERTIES*

PROPERTY	METHOD	UNITS	PLEXIGLAS® G-UVT ACRYLIC SHEET (0.177")
Mechanical Properties			
Notched Izod Impact	ASTM D 256	Ft-lb/in	0.46
Flexural Modulus	ASTM D 790	PSI	457,100
Tensile Stress at Yield	ASTM D 638	PSI	11,200
Tensile Elongation at Break	ASTM D 638	%	4.6
Rockwell Hardness	ASTM D 785	M	101
Thermal Properties			
DTUFL 66 PSI	ASTM D 648	°C / °F	107/225
DTUFL 264 PSI	ASTM D 648	°C / °F	101/214
1kg Load	ASTM D 1525	°C / °F	114/237
5kg Load	ASTM D 1525	°C / °F	108/226
Forming Temperature		°F	290°F - 360°F
Optical Properties			
Refractive Index	ASTM D 542	NA	1.49
Haze as Received	ASTM D 1003	%	< 0.6
Yellow Index as Received	ASTM E 313	NA	< 0.6
Luminous Transmission	ASTM D 1003	%	92
Ultraviolet Transmission at 300nm (0.125")		%	> 80
Yellow Index Δ after 3000 hours UVB-313EL Exposure	ASTM E 313 ASTM G 154	YI	0.2
Haze % Δ after 3000 hours UVB-313EL Exposure	ASTM D 1003 ASTM G 154	H%	1.6

*Values reported are averages and should not be used for specification purposes.

THICKNESS

0.118"
0.125"
0.150"
0.157"
0.170"
0.177"
0.187"
0.312"
0.354"
0.375"
0.472"
0.500"

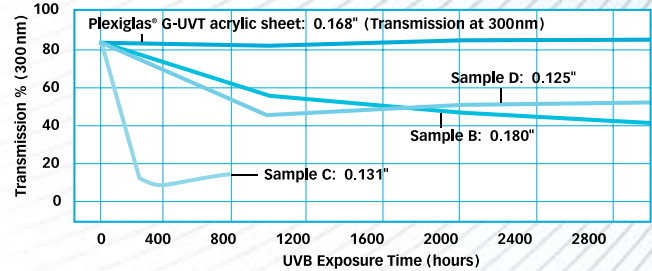
SHEET SIZE*

48" X 96"
50" X 99"
60" X 96"
62" X 99"
72" X 96"
74" X 99"

For a complete listing of physical properties visit 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.

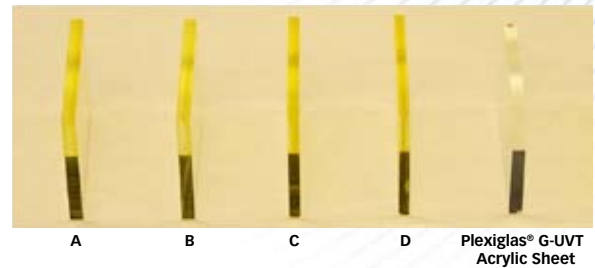
*Custom lengths are available with minimum requirements.

Comparison of Plexiglas® G-UVT Acrylic Sheet vs. Commercial UVT Samples



UV transmission at 300nm for Plexiglas® G-UVT acrylic sheet and various commercial UVT samples as a function of UVB exposure. Reference test method: ASTM G-154

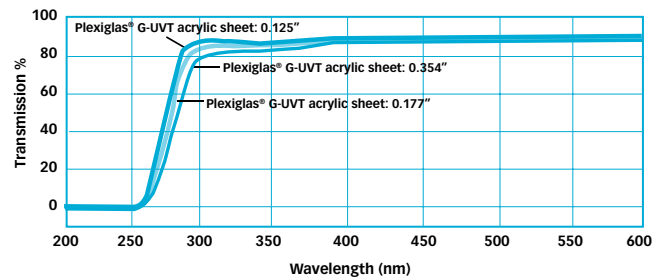
Edge Color Comparisons After UVB Exposure



Edge color comparisons after UVB exposure (1200 hours). Plexiglas® G-UVT acrylic sheet showed no color change, and the competitive UVT sheets showed severe yellowness after UVB lamp exposure. Samples A, B, C, and D are various commercial UVT samples. Reference test method: ASTM G-154

Conditions: Q-Panel Accelerated Weathering Tester, model QUV/SE, with UVB 313EL lamps. The set point for the tester is 0.67W/M2 at the calibration wavelength λ=313nm. Set temperature: 45°C.

Plexiglas® G-UVT Acrylic Sheet UV Transmission Curves



Plexiglas® G-UVT acrylic sheet transmissions measured by a Perkin Elmer® Lambda 850 UV/Vis spectrometer.

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.

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

See MSDS for Health & Safety Considerations.
Altuglas® and Plexiglas® are registered trademarks of Arkema.
©2008 Arkema Inc. All rights reserved.

Altuglas International

Arkema Inc.
2000 Market Street
Philadelphia, PA 19103-3222
TEL 215.419.7000
FAX 215.419.5512
www.altuglasint.com
www.plexiglas.com