



PLEXIGLAS®
BY ARKEMA

Plexiglas® G UF-3 Plexiglas® G UF-4

CELL CAST ACRYLIC SHEET

Altuglas International offers two different Plexiglas® cell cast acrylic sheet products suitable for framers, museums, and galleries. Both Plexiglas® G UF-3 and Plexiglas® G UF-4 offer superior optical performance and filter out over 95% of harmful UV rays from natural and artificial light sources, which makes it ideal for displaying your treasured items.

Plexiglas® G UF-3 offers the maximum UV protection with transmission starting at 395 nm.

Plexiglas® G UF-4 offers a slightly lower amount of UV protection with transmission starting at 385 nm. However, this allows for higher overall visible light transmission which results in a sheet with slightly better edge color.

Both products are suitable for museum display cases, framing, and any other type of project where UV protection is required.

- **High Performance Cell-Cast Acrylic Sheet**
- **Offers superior UV protection**
- **Exceptional Optical Clarity**
- **Virtually no low angle distortion**
- **Lightweight – Half the weight of glass**
- **Can be easily fabricated and thermoformed**

Plexiglas® G UF-3

Plexiglas® G UF-4

CELL CAST ACRYLIC SHEET

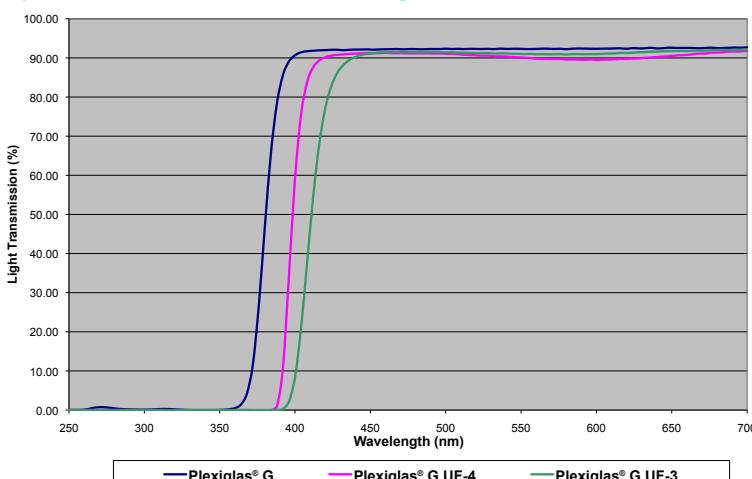
TYPICAL STANDARD PROPERTIES - Plexiglas® G UF-3 & G UF-4

PROPERTIES	TEST METHOD	UNIT	VALUE
PHYSICAL			
Nominal Thickness for data unless otherwise noted		in	0.118"
Specific Gravity	ASTM D-792	---	1.19
Rockwell Hardness	ASTM D-785	M scale	100
OPTICAL			
Refractive Index (ND @ 73°F)	ASTM D-542	---	1.49
Luminous Transmittance ¹	ASTM D-1003	%	92.0
Haze ¹	ASTM D-1003	%	< 2.0
MECHANICAL			
Tensile Strength, maximum	ASTM D-638	psi	10,500
Tensile Strength, yield	ASTM D-638	psi	10,500
Tensile Elongation	ASTM D-638	%	4.9
Tensile Modulus of Elasticity	ASTM D-638	psi	450,000
Flexural Strength, maximum	ASTM D-790	psi	16,000
Flexural Modulus of Elasticity	ASTM D-790	psi	450,000
Notched Izod Impact @ 73°F (23°C)	ASTM D-256	ft-lb / in	0.3
Un-notched Charpy @ 73°F (23°C)	ASTM D-256	ft-lb / 0.5"x1" section	7.0
THERMAL			
Deflection Temperature under Flexural Load @ 264psi - unannealed ¹	ASTM D-648	°F	205
Coefficient of Thermal Expansion at 60°F	ASTM E-831	in / in / °F x 10 ⁻⁵	3.9
Maximum Recommended Continuous Service Temperature	N/A	°F	180 – 200
Recommended Thermoforming Temperature	N/A	°F	290 – 360
CRAZE RESISTANCE			
Constant Stress Craze Resistance, IPA ³	Modified ARTC Method – Mil P-6997	psi	2,100
Constant Stress Craze Resistance, Aromatic / Alcohol Blend ³	Modified ARTC Method – Mil P-6997	psi	1,700
FLAMMABILITY² & SPECIFICATION COMPLIANCE			
Self Ignition Temperature	ASTM D-1929	°F	860
Standard Specification for PMMA Acrylic Plastic Sheet	ASTM D-4802	---	Category A-1, Finish 1, Type UVF

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. Flammability tests are small scale tests and may not be indicative of how materials will perform in an actual situation.
3. The values are after the material has been heated for forming.

Spectral Transmission of Plexiglas® G UF-3 & G UF-4



PRODUCT OFFERING

Plexiglas® G UF-3 & Plexiglas® G UF-4

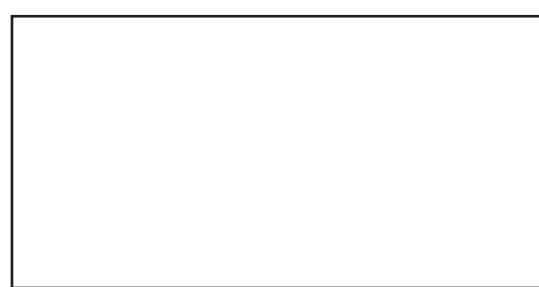
Thickness
0.118"
0.177"
0.236"
0.354"
0.472"

Sheet Size
48" x 96"
60" x 96"
72" x 96"

Distributed by:

 **Piedmont Plastics®**
where solutions take shape

Toll Free: 1.800.277.7898
www.piedmontplastics.com



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 designed and manufactured by Arkema for which 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.
©2012 Arkema Inc. All rights reserved.