



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.

PLEXIGLAS®
BY ARKEMA

- 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

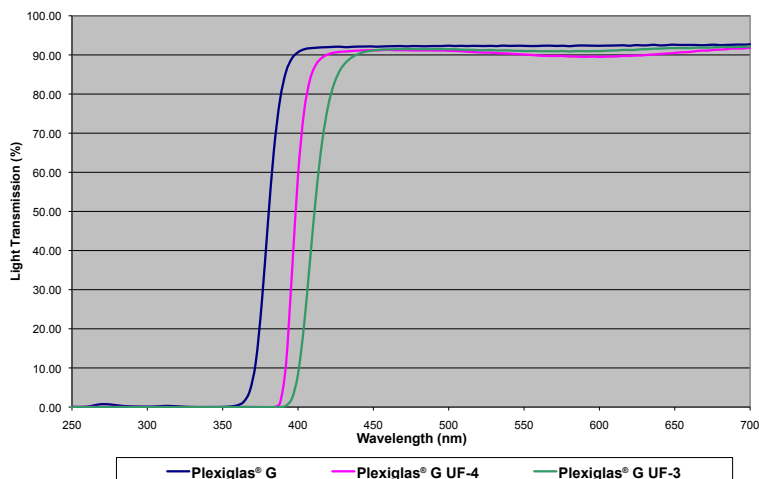
PRODUCT OFFERING Plexiglas® G UF-3 & Plexiglas® G UF-4

Thickness	Sheet Size
0.118"	48" x 96"
0.177"	60" x 96"
0.236"	72" x 96"
0.354"	
0.472"	

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



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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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