



Plexiglas® II – UVA

Cell Cast Acrylic Sheet

Plexiglas® II-UVA cell cast acrylic sheet is produced by Altuglas International. It is manufactured to meet the requirements of MIL-PRF-5425E. Typical markets include general aviation and military aircraft. Applications include low altitude aircraft windshields, instrument panels, and lens covers. It is available in thicknesses ranging from 0.125" to 1.000".

- A premium grade, heat-resistant cell-cast acrylic sheet
- Sheet is pre-shrunk during manufacturing resulting in < 1% internal strain
- Can be used alone or as a laminate
- Lightweight – half the weight of glass
- Weather resistant
- Excellent light transmission and optical clarity
- Easily fabricated and thermoformed



PLEXIGLAS® II – UVA CELL CAST ACRYLIC SHEET (COLORLESS)

Sheet Size	Thickness (inches)							
	0.125	0.187	0.250	0.375	0.500	0.625	0.750	1.000
48" x 96"	X	X	X	X	X	X	X	X
60" x 96"	X	X	X	X	X	X	X	X

X Minimum Quantity Applies

Please check with your local salesperson to confirm details.

TYPICAL STANDARD PROPERTIES

Properties	Test Method	Units	Value
Physical			
Nominal Thickness for data unless otherwise noted	N/A	in	0.250"
Specific Gravity	ASTM D-792	N/A	1.19
Water Absorption (24 hours) ¹	ASTM D-570	%	< 0.30
Optical			
Refractive index @ 72 °F	ASTM D-542	N/A	1.49
Luminous Transmittance ²	ASTM D-1003	%	92.6
Luminous Transmittance – After 1000 hrs accelerated weathering ²	ASTM D-1003	%	92.6
Haze – Initial ¹	ASTM D-1003	%	< 1.0
Haze – After 1000 hrs accelerated weathering ²	ASTM D-1003	%	< 1.0
UV Transmission (290 – 330 nm) ²	MIL-PRF-5425E	%	< 0.5
Angular Deviation (Primary)	ASTM F-733	Minutes	3
Effect of Accelerated Weathering on Appearance (crazing, discoloration, warping)	MIL-PRF-5425E	Visual	None
Mechanical			
Tensile Strength, yield	ASTM D-638	psi	11,000
Tensile Elongation, break	ASTM D-638	%	5.6
Residual Shrinkage (Internal Strain)	MIL-PRF-5425E	%	< 1.0
Thermal			
Deflection Temperature Under Flexural Load @ 264 psi ³	ASTM D-648	°F	227
Coefficient of Thermal Expansion	ASTM D-696	in / in °C	0.00006
Maximum Recommended Continuous Service Temperature	N/A	°F	180
Recommended Thermoforming Temperature	N/A	°F	290 – 360
Flammability⁴ & Specification Compliance			
Horizontal Burn Rate ²	ASTM D-635	in / min	< 1.2
Military Performance Specification	MIL-PRF-5425E	–	PASS

- Data given are typical average values and should not be used for specification purposes
- All samples conditioned for at least 40 hours at 23 °C +/- 2 °C and 50% RH +/- 10%

¹ Water absorption samples conditioned for 24 hours at 50 °C.

² This property will change with thickness. The value given is for the thickness indicated in the column heading unless otherwise noted.

³ Reported for thicknesses ≥ 0.500".

⁴ Flammability tests are small scale tests and may not be indicative of how materials will perform in an actual situation.

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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See MSDS for Health & Safety Considerations.

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