



UV-F

Chemcast UV-F is a high-quality optical cell cast acrylic sheet designed to keep a superior protection against ultraviolet radiation. Chemcast UV-F guarantees the absorption of 98% of the radiation that causes deterioration.

The main purpose of Chemcast UV-F is the preservation of important articles such as paintings, documents, pieces of art, artistic prints and photographs.

APPLICATIONS

- Museums.
- Art rooms.
- Libraries.
- Exhibitions.
- Protection of personal collections.

SIZES AND THICKNESESS AVAILABLE

SIZES
48" x 96"
60" x 96"
72" x 96"
51" x 100"
75" x 100"
48" x 120"
60" x 120"
72" x 120"
80" x 120"

THICKNESESS
.118"
.125"
.157"
.177"
.197"
.220"
.236"
.250"
.315"
.354"
.394"
.472"

TYPICAL THICKNESS TOLERANCE

THICKNESS TOLERANCES -SECTION A

Nominal Sheet Size		Nominal Thickness		Tolerance	Control Limits	
(in)	(m)	(in)	(mm)	(+ / -)	(mm)	(in)
48"X72"	1.80X1.20	0.118"	3.00	18	2.45 - 3.55	0.096 - 0.140
48"X96"	2.40X1.20	0.125"	3.20	10	2.88 - 3.52	0.113 - 0.139
51"X100"	2.50X1.30	0.157"	4.00	10	3.60 - 4.40	0.142 - 0.173
60"X96"	2.40X1.50	0.177"	4.50	10	4.05 - 4.95	0.159 - 0.195
		0.197"	5.00	10	4.50 - 5.50	0.177 - 0.217
		0.220"	5.60	10	5.04 - 6.16	0.198 - 0.243
		0.236"	6.00	10	5.40 - 6.60	0.213 - 0.260
		0.250"	6.25	10	5.40 - 6.60	0.213 - 0.260
		0.312"	8.00	8	7.36 - 8.64	0.290 - 0.340
		0.354"	9.00	8	8.28 - 9.72	0.326 - 0.383
		0.394"	10.00	8	9.20 - 10.80	0.362 - 0.425
		0.472"	12.00	-8 / +6	11.04 - 12.72	0.435 - 0.501

THICKNESS TOLERANCES -SECTION B

Nominal Sheet Size		Nominal Thickness		Tolerance	Control Limits	
(in)	(m)	(in)	(mm)	(+ / -)	(mm)	(in)
72"X96	2.40X1.80	0.118"	3.00	18	2.45 - 3.55	0.096 - 0.140
75"X100"	2.54X1.91	0.125"	3.20	15	2.72 - 3.68	0.107 - 0.145
80"X120"	3.05X2.03	0.157"	4.00	15	3.40 - 4.60	0.134 - 0.181
		0.177"	4.50	15	3.82 - 5.17	0.150 - 0.204
		0.197"	5.00	-15 / +14	4.25 - 5.70	0.167 - 0.224
		0.220"	5.60	-15 / +12	4.76 - 6.27	0.187 - 0.247
		0.236"	6.00	-15 / +8	5.10 - 6.48	0.201 - 0.255
		0.315"	8.00	10	7.20 - 8.80	0.283 - 0.346
		0.354"	9.00	-10 / +9	8.10 - 9.81	0.319 - 0.386
		0.394"	10.00	-10 / +7	9.00 - 10.70	0.354 - 0.421
		0.472"	12.00	-10 / +7	10.80 - 12.84	0.425 - 0.506

These thickness tolerances are based on statistical production records.

Thickness tolerances allowed by ASTM D4802 Norm are the official reference for acrylic sheets.

COLORS

COLORS
Clear

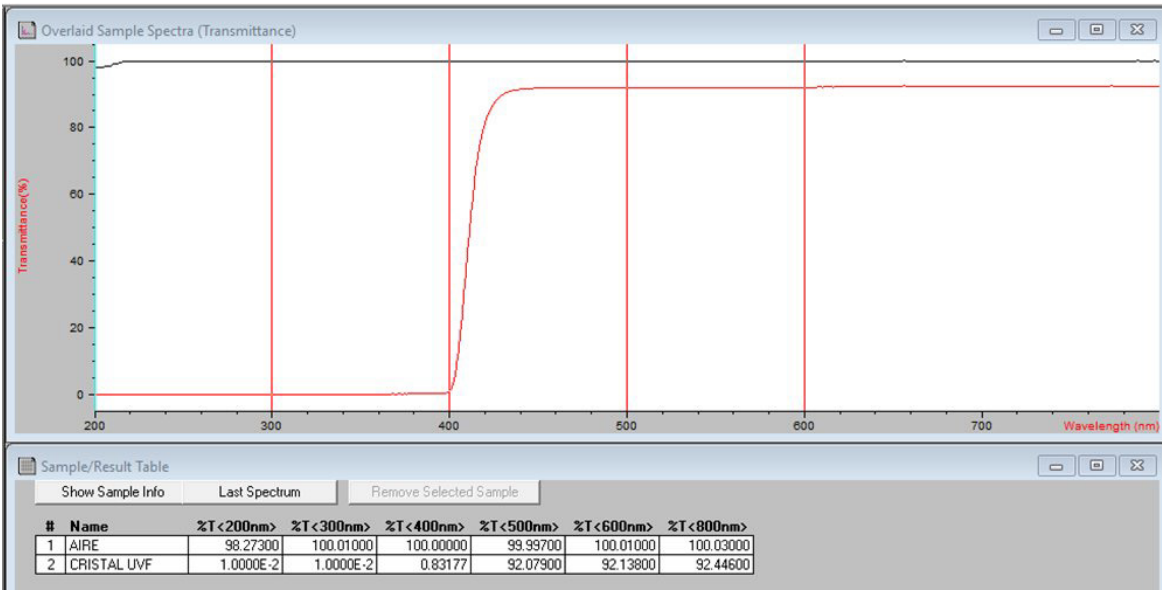
PHYSICAL AND MECHANICAL PROPERTIES

Property	Typical Value	Method
OPTICAL		
% of Light Transmission (0.100" – 0.197")	92%	ASTM D 1003
Haze	2.0	ASTM D 542
PHYSICAL -MECHANICAL		
Specific Gravity	1.18	ASTM D 792
Tensile Strength	9600 lb/in2	ASTM D 638
Elongation at Rupture (%)	4.5 %	ASTM D 638
Modulus of Elasticity	425000 lb/in2	ASTM D 798
Flexural Strength	15,000 α 16,000	ASTM D 798
Izod Impact Strength	0.40 – 0.50 ft lb/in	ASTM D 256
Rockwell Hardness	M 90 – 100	ASTM D 785
THERMAL		
Maximum recommended continuous service temp	80 °C	
Deflection Temperature Under Load (264 psi) (°C)	91 °C	ASTM D 648
Coefficient of thermal expansion	4 x 10 ⁻⁵ in/in F	ASTM D 696
PERFORMANCE		
Water Absorption (24 hrs)	0.3%	
% of Light Transmission at UV region	2.0% Maximum	

All values are referred to 3.0 mm (0.118") CHEMCAST UV-F acrylic sheet. These values are typical and should not be taken as specifications.

PERFORMANCE

Chemcast UV-F blocks at least 98% of the UV radiation causing deterioration.



CHEMICAL RESISTANCE

CHEMICAL	CODE	CHEMICAL	CODE
Acetic Acid (10%)	R	Hydrogen Peroxide (3%)	R
Acetic Acid (glacial)	N	Isopropyl Alcohol	LR
Acetone	RL	Kerosene	R
Ammonium Chloride	R	Lacquer Thinner	RL
Ammonium Hydroxide	R	Methyl Alcohol (30%)	LR
Benzene	N	Methyl Alcohol (100%)	N
Calcium chloride	R	Methyl Ethyl Ketone	N
Carbon Tetrachloride	N	Methylene Chloride	N
Chloroform	N	Nitric Acid (10%)	R
Chromic Acid (10%)	N	Nitric Acid (100%)	N
Chromic Acid (conc.)	N	Phenol (5%)	N
Diethyl Ether	LR	Sodium Chloride	R
IOCTl Phthalate	LR	Sodium Hydroxide (10%)	R
Ethyl Alcohol (30%)	R	Sodium Hypochlorite	R
Ethyl Alcohol (95%)	RL	Sulfuric Acid (3%)	N
Ethylene Dichloride	N	Sulfuric Acid (conc.)	N
Ethylene Glycol	R	Toluene	N
Gasoline	LR	Trichloroethylene	N
Glycerin	R	Turpentine	R
Hexane	R	Water (distilled)	R
Hydrochloric Acid	R	Xylene	N

The code is used to describe chemical resistance as follows:

R = RESISTANT

Acrylic cast withstand this substance for long periods and at temperature up to 120°F (49°C).

LR = LIMITED RESISTANCE

Acrylic only resists the action of this substance for short periods at room temperature.

N = NOT RESISTANT

Acrylic is not resistant to this substance. It is either swelled, attacked, dissolved or damaged in some manner.

These values are typical and should not be taken as specification.

LIMITED WARRANTY

Plastiglas de Mexico warrants its cell cast acrylic sheets against any origin manufacture defect. Warranty covers properties and characteristics expressed in the catalogs of product. This is a limited warranty only for the CHEMCAST® cell cast acrylic sheets. No transformation or installation jobs are considered in it.

This limited warranty does not consider any fault or damage during sheet transformation or installation. Customer should follow the technical recommendations for processing CHEMCAST® cell cast acrylic sheets.

This limited warranty does not consider any damage caused for the excessive heat exposure and or any non-recommended chemical agents used for cleaning and maintenance. Customer should see the Plastiglas de Mexico's recommended maintenance methods.

Plastiglas de Mexico has no liability under any circumstance for the cost of removal of defective sheet or the installation of replacement sheet or for indirect incidental or consequential damage.

In order to make a claim under the foregoing warranty, please contact Plastiglas de México or one of our representatives. You will be required to show a representative evidence of the problem and provide a purchase order number and or information regarding batch number printed on the label of the acrylic sheet.

Time frames for claim's acceptance:

- 1.- Quality in the delivery: Immediately after the reception of the material.
- 2.- Protective paper anchoring: 6 months after the manufacturing date written on the product label.
- 3.- Performance and processability: 1 year after the manufacturing date written on the product label.

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