

CELL CAST UV-F

PRODUCT PROPERTIES

Cell cast UV-F is a high quality optical cell cast acrylic sheet designed and oriented to meet applications where superior protection against ultraviolet radiation is required. Cell cast UV-F guarantees the absorption of 98% of the radiation that causes deterioration.

The main applications for this product is in museums, art rooms, libraries or where extra UV protection is required for the preservation of articles such as paintings, documents, pieces of art, artistic prints and photographs..

Technical Data

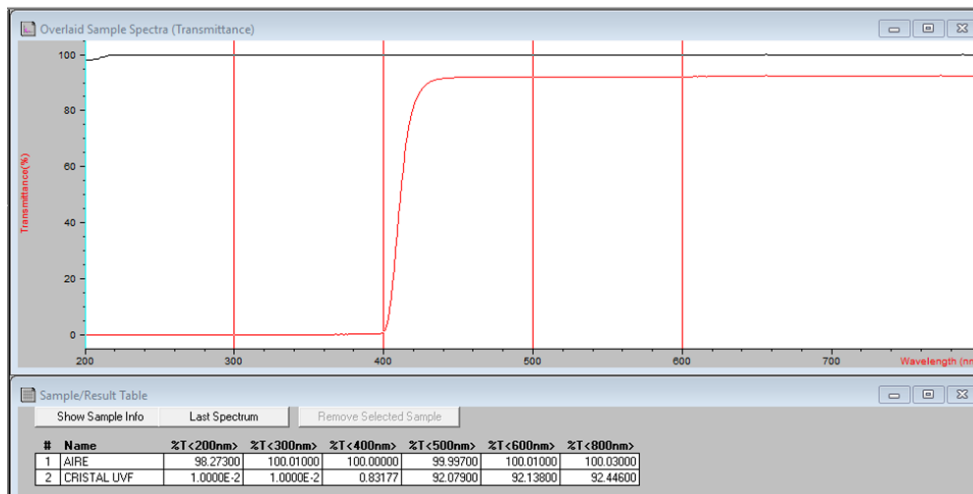
Property	Typical Value	Method
OPTICAL		
% of Light Transmission (0.100" - 0.197")	92%	ASTM D 1003
Haze	2.0	ASTM D 542
PHYSICAL - MECHANICAL		
Specific Gravity	1.18	ASTM D 792
Tensile Strength	9600 lb/in ²	ASTM D 638
Elongation at Rupture (%)	4.5 %	ASTM D 638
Modulus of Elasticity	425000 lb/in ²	ASTM D 798
Flexural Strength	15,000 a 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 hr.)	0.3%	ASTM D 570
% of Light transmission in the UV Region	Máximo 2.0%	

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

Cell cast UV-F protects at least against 98% of 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
IOctyl 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.

