



Polycast® Solacryl® SUVT Cell Cast Acrylic Sheet

PRODUCT DESCRIPTION

Polycast® Solacryl® SUVT sheet is a stabilized UV transmitting acrylic developed especially for use in tanning beds. With clarity that equals that of optical glass, it enables a high transmission of ultraviolet radiation for thousands of hours.

VALUE SOLUTION

Manufactured in the cell cast process, Solacryl SUVT is a clear, hard cast acrylic that stands up to the rigorous daily use of salon tanning beds. It has exceptional chemical resistance, and resists yellowing, haze, nicks or scratches, all of which can reduce UV transmission.

Durable and tough Solacryl SUVT withstands thousands of hours of use, which means fewer part replacements and lower labor costs over the life of the tanning bed.

Polycast Solacryl SUVT is formulated to facilitate the body's production of Vitamin D and may help reduce the risk of respiratory infection.

Phototherapy, which uses certain UVB and UVA light transmission, is used to treat skin, mood and sleep disorders and photodynamic therapy is used to treat some cancers and pre-cancers. Solacryl SUVT is an ideal material to use in phototherapy devices.

As skylights in zoos, Solacryl SUVT allows the passage of ultraviolet radiance that is beneficial to the health and well-being of animals in captivity. A recent independent study showed Solacryl SUVT to be far superior to other skylight materials, including polycarbonate, fiberglass, vinyl and "Teflon".

KEY CHARACTERISTICS

- Superior clarity equaling optical glass
- Extremely durable and impact resistant
- Outstanding chemical resistance
- Resists yellowing and hazing
- Excellent formability – can be formed with protective masking throughout fabrication
- Available in standard sheet sizes up to 6' X 8' and in thicknesses up to 0.500" – custom sizes and thicknesses also offered

MARKETS AND APPLICATIONS

- Tanning Beds
- Zoological Skylights
- Phototherapy Devices

Call 800-677-4338 or email marketing@spartech.com to order these products.

TECHNICAL PROPERTIES		
PROPERTY ⁽¹⁾	VALUE	TEST METHOD
Modulus of Elasticity, psi	400,000	ASTM D638
Tensile Strength (Rupture), psi	8,600	ASTM D638
Elongation Rupture, %	6-8	ASTM D638
Specific Gravity	1.19	ASTM D792
Residual Shrinkage, %	2.2	ASTM D4802
Refractive Index	1.49	ASTM D542
Luminous Transmittance (as cast), %		
Parallel	91	ASTM D1003
Total	92	
Haze	<1	
Hot Forming Temperature, °F	290-330	
Heat Distortion Temperature, °F	185	ASTM D648
Maximum Continuous Service Temperature, °F	140-170	
Coefficient of Linear Thermal Expansion, in/in, °F	0.000042	ASTM D696
Flammability, in/min	1.1-1.3	ASTM D635
UL Flame Class	94 HB	UL
Self-Ignition Temperature, °F	800-860	ASTM D1929
Plastic Component	Listed	UL 746C

(1) Tests conducted on material 0.187 in. thick (average value).
NOTE: These data are typical sheet properties and are not intended for specification purposes. They are the latest at the time of publication and are authentic to the best knowledge of the company. The properties are listed solely to give general guidance and are not to be construed as a warranty of any type. Please contact Polycast for specific data to meet your design criteria.

UV Transmittance for 0.125 inch sheet

