

MONKEY SHINE



THE CLEAR CHOICE FOR ANIMAL HABITATS.

Primates, reptiles and other species need vitamin D to properly utilize calcium. In the wild, their bodies readily synthesize this vitamin when exposed to sunlight. Enclosed animals must rely on transmitted rather than direct solar rays. They run the risk of vitamin D deficiency which can lead to withdrawal of calcium from their bones, and ultimately to rickets (osteomalacia) and impaired cellular metabolism.

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".

POLYCAST®
CELL CAST ACRYLIC

For more information on SOLACRYL SUVT, or any other products manufactured by Polycast, contact us by phone, e-mail, or visit our website.

SOLACRYL SUVT: THE CLEAR CHOICE

• **Superior Clarity:** SOLACRYL SUVT is crystal clear, equaling the finest optical glass. SOLACRYL SUVT is the highest in clarity and transmission of ultraviolet radiation.

• **Impact Resistance:** SOLACRYL SUVT is hard, tough, high-quality cell-cast acrylic. It can stand up to heavy-duty demands and yet resist nicks and scratches that can reduce UV transmission.

• **Resists Yellowing and Hazing:** SOLACRYL SUVT resists the yellowing, clouding and haze that can ultimately reduce the amount of ultraviolet rays passing through. Solacryl transmits UV light at least three times longer than standard UVT sheets.

• **Chemical Resistance:** SOLACRYL SUVT has the chemical resistance of high quality cell-cast acrylic sheet. Cleanup takes nothing more than a mild soap or detergent and lukewarm water.

• **Easily Formed:** SOLACRYL SUVT sheet is easily cut, drilled and shaped by conventional techniques. It can also be thermoformed to any contour.

• **Competitively Priced:** SOLACRYL SUVT is a premium product with superior clarity, but it costs no more than other high-quality products.

• **Quality:** SOLACRYL SUVT's cell-cast process provides a clearer, higher quality product. Sheet thickness is carefully monitored, inspected and measured for UV transmission before its release.

• **Product Availability:** Five standard sheet sizes and all standard thicknesses are inventoried. We cut to size at no additional cost. Custom thickness available upon request.



A typical skylight application at The San Diego Zoo.

• **Delivery:** Fast delivery is a hallmark of Polycast. Stocking locations are strategically located in California, Florida, Illinois, New Jersey and Texas.

• **Service:** Polycast has one customer service representative for every field representative. Customer needs, ranging from inquiries to quick delivery, are considered top priority at Polycast.



TYPICAL PHYSICAL PROPERTIES OF SOLACRYL SUVT ACRYLIC SHEET

Property ⁽¹⁾	Value	Test Method
Modulus of Elasticity, psi	400,000	ASTM D638
Tensile Strength (Rupture), psi	8,600	ASTM D638
Elongation rupture, %	7	ASTM D638
Specific Gravity	1.19	ASTM D792
Residual Shrinkage, %	2.2	ASTM D4802
Refractive Index	1.49	ASTM D542
Luminous transmittance (as-cast), %		ASTM D1003
Parallel	91	
Total	92	
Haze	<1	
Hot forming Temperature, F	300	
Heat Distortion Temperature, F	200	ASTM D648
Maximum Continuous Service Temperature, F	155	
Coefficient of Linear Thermal Expansion, in/in/F	0.000042	ASTM D696
Flammability, in/min	1.2	ASTM D635
UL Flame Class	94 HB	UL
Self-Ignition Temperature, F	830	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.

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