



Polycast® Solacryl® SUVT Cell Cast Acrylic Sheet

PRODUCT DESCRIPTION

Polycast® Solacryl® SUVT sheet is a stabilized UV transmitting acrylic developed especially for use in medical environments where the reduction and spread of airborne-mediated microbial diseases is a major challenge. 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 thousands of hours rigorous use in medical offices, surgical and post-operative rooms and for essential medical equipment such as MRI machines. It has exceptional chemical resistance, and resists yellowing or haze, which can reduce UV transmission.

Durable and tough Solacryl SUVT is designed to meet the germicidal range of UV which causes changes in the DNA and RNA structure, rendering the microorganisms incapable of replicating. It also has an Ultra Violet Transmitting grade for added UV sanitization and disinfecting.

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

Polycast Solacryl SUVT sheet is manufactured for use in most medical and surgical environments and for medical equipment applications.

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

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TECHNICAL PROPERTIES		
PROPERTY ⁽¹⁾	VALUE	TEST METHOD
Modulus of Elasticity, psi	4000,000	ASTM D-638
Tensile Strength (Rupture), psi	8,600	ASTM D-638
Elongation Rupture, %	6-8	ASTM D-638
Specific Gravity	1.19	ASTM D-792
Residual Shrinkage, %	2.2	ASTM D-4802
Refractive Index	1.49	ASTM D-542
Luminous Transmittance (as cast), %		
Parallel	91	ASTM D-1003
Total	92	
Haze	<1	
Hot Forming Temperature, °F	290-330	
Heat Distortion Temperature, °F	264	ASTM D-648
Maximum Continuous Service Temperature, °F	140-170	
Coefficient of Linear Thermal Expansion, in/in, °F	0.000042	ASTM D-696
Flammability, in/min	11-13	ASTM D-635
UL Flame Class	94 HB	UL
Self-Ignition Temperature, °F	800-860	ASTM D-1929
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

