

PLEXIGLAS® SYLK

Think Sleek and Chic for Any Application

PLEXIGLAS® Sylk acrylic sheet takes shape with the latest technological developments in light diffusion, and offers exceptional diffusion characteristics combined with tremendous light transmission. With a transition to LED light sources, this product offers optimum optical performance without sacrificing light transmission. PLEXIGLAS® Sylk has been designed specifically to enhance virtually any environment.

PLEXIGLAS® Sylk acrylic sheet can be easily designed and has all the fabrication attributes you have come to expect of standard PLEXIGLAS® acrylic sheet. Unlike products exhibiting a mechanically applied finish, the soft and subtle texture is engineered throughout the entire acrylic sheet, allowing it to retain its beautiful aesthetic even after thermoforming or fabricating. Additionally, PLEXIGLAS® Sylk exhibits maximum LED hiding power with consistent optical performance across all thicknesses.

- Soft, subtle, and modern matte finish
- Lightweight
- Maximum LED hiding power
- Fingerprint, mar, & scratch resistant
- Easily fabricated and thermoformed with no distortion
- Consistent optical performance

With its exceptional light transmittance and resistance to wear qualities, PLEXIGLAS® Sylk is a perfect choice for a variety of applications. This versatile material is an excellent fit for POP displays, store fixtures, signage, lighting and decorative furnishings. Open up your imagination to the unlimited possibilities.

- Architectural lighting
- Furniture
- Luminaries
- POP displays
- Skylights
- Wall paneling
- Decorative glazing
- Indoor signage
- Outdoor signage
- Privacy partitions
- Store fixtures



COLOR OFFERINGS*

PLEXIGLAS® Sylk is available as a colorless acrylic. For applications that require a pop of color, PLEXIGLAS® Sylk is beautifully highlighted by lighting of any color, and can also easily be screen printed.

* Premier and custom colors may be available upon request; minimum order quantity and lead times may vary. Please contact our customer service team for more information.

PRODUCT OFFERINGS**

PLEXIGLAS® Sylk is available in a variety of sizes and thicknesses, with custom offerings quoted upon request.

Thickness	Sheet Size
0.080"	48" x 96"
0.118"	
0.177"	
0.236"	

** Not all thickness/sheet size combinations may be in stock. Minimum order quantity and lead times may vary. Please contact our customer service team for more information.

HOW TO PURCHASE

PLEXIGLAS® Sylk can be purchased through authorized distributors throughout the Americas.

For product inquiries, technical questions, or contact information for your closest distributor, please contact our customer service team at: Usph-sheet-cs@trinseo.com or 1-800-523-7500

TYPICAL VALUES

	Test Method	Unit	Value
Physical properties			
Nominal thickness for data unless otherwise noted	N/A	in	0.118"
Specific gravity	ASTM D-792	-	1.19
Rockwell hardness	ASTM D-785	M scale	86
Optical properties			
Luminous transmittance ¹	ASTM D-1003	%	85
Haze ^{1,3}	ASTM D-1003	%	100
Mechanical properties			
Tensile strength, maximum	ASTM D-638	psi	9,300
Tensile strength, yield	ASTM D-638	psi	9,300
Tensile elongation, yield	ASTM D-638	%	7.7
Tensile modulus of elasticity	ASTM D-638	psi	425,000
Flexural strength, maximum	ASTM D-790	psi	116,500
Flexural modulus of elasticity	ASTM D-790	psi	415,000
Notched izod impact @ 73°F (23°C)	ASTM D-256	ft-lb/in	0.4
Charpy impact (Unnotched)	ASTM D-6110	ft-lb/in	6.1
Thermal properties			
Deflection temperature under Flexural Load @ 264psi - unannealed ¹	ASTM D-648	°F	181
Deflection temp under Flexural Load @ 264 psi - annealed ^{1,4}	ASTM D-648	°F	203
Maximum recommended continuous service temperature	N/A	°F	170 - 190
Recommended thermoforming temperature	N/A	°F	275 - 350
Craze Resistance ⁵ properties			
Craze resistance IPA	MIL-PRF-8184	psi	1,250
Craze resistance acetone	MIL-PRF-8184	psi	380
Flammability ^{1,6} & specification compliance properties			
Horizontal burn rate ^{1,2}	ASTM D-635	in/min	1.0
Smoke density ^{1,2}	ASTM D-2843	%	3.2
Self ignition temperature ^{1,2}	ASTM D-1929	°F	760
Plastics component - QMFZ2.E39437 Flammability Classification	UL 94	-	HB (≥ 0.080" All)
Plastics component - QMFZ2.E39437 Relative Thermal Index	UL 746B	°F	194
Plastics component - QMFZ2.E39437 - Outdoor Suitability	UL 746C	-	f1 (≥ 0.080" Colorless) f2 (≥ 0.080" ALL)
International building code	IBC 2606.4	-	CC2 (0.080" - 0.472")
Miami-dade county product control division	NOA # 21-0825.02	-	PASS (0.080" - 0.472")
Standard specification for PMMA acrylic plastic sheet	ASTM D-4802	-	Category B-1, Finish 2

Data given are average values and should not be used for specification purposes.

¹This property will change with thickness. The value given is for the thickness indicated in the column heading unless otherwise noted.

²Tests performed on .080" thickness.

³Haze reading >30% reported for informational purposes.

⁴Annealing Cycle: 4 hrs @ 185°F.

⁵Conditioned for 2 hours @ 200°F and then room temperature for 48 hours.

⁶Flammability tests are small scale tests and may not be indicative of how materials will perform in an actual situation.

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