

## Think Sleek and Chic for Your New Designs

Introducing the newest addition to the Plexiglas® acrylic sheet family of products, Plexiglas® Sylk. With the latest technological developments in light diffusion, Plexiglas® Sylk acrylic sheet was developed with a focus on the trends toward LED light sources. Sleek and captivating, Plexiglas® Sylk offers a unique blend of properties that provides brilliance and luminosity without sacrificing light transmission.

Plexiglas® Sylk acrylic sheet can be easily designed and has all the fabrication attributes you have come to expect of standard Plexiglas® sheet. Unlike products exhibiting a mechanically applied finish, the soft, subtle texture is engineered throughout the entire acrylic sheet, retaining its beautiful aesthetic even after thermoforming.

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.



### Features

- Excellent Diffusion Characteristics
- Exceptional Light Transmission
- Maximum LED Hiding Power
- Soft Subtle Texture
- Easily Fabricated and Thermoformed
- Lightweight - Half the Weight of Glass
- Fingerprint and Mar Resistant Surface
- Consistent Optical Performance Across All Thicknesses
- Maintains Same Soft Appearance After Bending & Forming
- UL® Certified

### Applications

- Architectural Lighting
- POP Displays
- Store Fixtures
- Privacy Partitions
- Wall Paneling
- Skylights & Luminaries
- Decorative Glazing
- Indoor/Outdoor Signs
- Furniture

### Standard Offering

- Available in 4' x 8' colorless sheet
- Standard gauges of 0.080", 0.118", 0.177" and 0.236"
- Custom sizes quoted upon request



## Typical Properties<sup>1</sup>

	Test Method	Unit	Plexiglas® Sylk
<b>Physical</b>			
Nominal Thickness for Data Unless Otherwise Noted	N/A	in	0.118
Specific Gravity	ASTM D792	N/A	1.19
Rockwell Hardness	ASTM D785	M Scale	86
<b>Optical</b>			
Luminous Transmittance <sup>2</sup>	ASTM D1003	%	85
Haze <sup>2,3</sup>	ASTM D1003	%	100
<b>Mechanical</b>			
Tensile Strength, Maximum	ASTM D638	psi	9300
Tensile Strength, Yield	ASTM D638	psi	9300
Tensile Elongation, Yield	ASTM D638	%	7.7
Tensile Modulus of Elasticity	ASTM D638	psi	425,000
Flexural Strength, Maximum	ASTM D790	psi	16,500
Flexural Modulus of Elasticity	ASTM D790	psi	415,000
Izod Impact (Notched)	ASTM D256	ft-lbs/in	0.4
Charpy Impact (Unnotched)	ASTM D6110	ft-lbs/in	6.1
<b>Thermal</b>			
Deflection Temp Under Flexural Load @ 264 psi - unannealed <sup>2</sup>	ASTM D648	°F	181
Deflection Temp Under Flexural Load @ 264 psi - annealed <sup>2,4</sup>	ASTM D648	°F	203
Maximum Recommended Continuous Service Temperature	N/A	°F	170 - 190
Recommended Thermoforming Temperature	N/A	°F	275 - 350
<b>Craze Resistance<sup>5</sup></b>			
Craze Resistance (Class II) IPA	MIL-PRF-8184	psi	1250
Craze Resistance (Class II) Acetone	MIL-PRF-8184	psi	380
<b>Flammability<sup>6</sup> &amp; Building Code Compliance</b>			
Horizontal Burn Rate <sup>2</sup>	ASTM D635	in / min	< 1.0
Smoke Density <sup>2</sup>	ASTM D2843	%	3.2
Self Ignition Temperature	ASTM D1929	°F	750
Plastics Component - QMFZ2.E39437 Flammability Classification	UL 94	N/A	HB
Plastics Component - QMFZ2.E39437 Relative Thermal Index	UL 746B	°F	194
Standard Specification for PMMA Acrylic Plastic Sheet	ASTM D4802	N/A	Category B-1, Finish 2

<sup>1</sup> Values reported are averages and should not be used for specification purposes.

<sup>2</sup> This property will change with thickness. The value given is for the thickness indicated in the column heading unless otherwise noted.

<sup>3</sup> Haze reading >30% reported for informational purposes.

<sup>4</sup> Annealing Cycle: 4 hrs @ 185°F.

<sup>5</sup> Conditioned for 2 hours @ 200°F and then room temperature for 48 hours.

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

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