







The premier acrylic sheet product for the sign industry today, this impactmodified acrylic sheet was specifically developed to meet the unique needs of the sign industry. What sets ACRYLITE® SG acrylic sheet apart from the competition is an impact strength up to ten times stronger than standard acrylic, so it will resist breakage during storage, fabrication, shipping and installation.



The easily fabricated ACRYLITE SG sheet, perfect for any sign application, is known for its amazing light transmission, outstanding weatherability, excellent light diffusion with LED light sources and cost effectiveness. Offered in eight standard colors as well as colorless, ACRYLITE SG sheet is stocked locally in both reels and flat sheet, so it's always readily available.

## Acrylite FF

For further economic flexibility, there's ACRYLITE® FF acrylic sheet. This easily fabricated acrylic sheet comes in 11 standard colors plus colorless—and a non-glare surface. It offers unmatched thickness tolerance, excellent weatherability, first-rate light transmission, and is a fine choice for all lighting applications including LED and neon.

CYRO also produces the easily fabricated Extra Thick ACRYLITE® FF acrylic sheet. With superior optical clarity and a blemish-free appearance, this acrylic sheet is ideal for push- or press-through lettering. In addition, Extra Thick ACRYLITE FF sheet gives you the flexibility of run-to-size orders to meet all your needs.

# Acrylite GP

Available in vibrant and dazzling colors for interior and exterior signage, ACRYLITE<sup>®</sup> GP acrylic sheet offers custom colors made-to-order with minimum order quantities as low as one case. This product can be easily formed and fabricated. It is also offered with an abrasion and chemical resistant coating or with UV filtering properties that ensure outstanding performance in harsh environments.

ACRYLITE GP sheet is available as transparent, translucent and opaque—with glossy, matte or textured finishes—and maintains its rich color in daylight or under all artificial light conditions.

ACRYLITE FF P-99 sheet with a non-glare surface and ACRYLITE GP P-95 sheet with a matte finish both comply with American Disabilities Act (ADA) section 4.30.5 which states that indoor signage must have an eggshell, matte or other non-glare finish.



With exceptional light transmission and diffusing properties, ACRYLITE® Satin Ice acrylic sheet is perfect for indoor or outdoor lit signage. Available in both standard and impact modified acrylic, ACRYLITE Satin Ice sheet has a frosted, textured surface throughout the sheet that performs exceptionally well with LED and neon applications.

ACRYLITE Satin Ice sheet comes in a large selection of widths and thicknesses. The surface of ACRYLITE Satin Ice sheet hides fingerprints and scratches for enhanced service life and is available in ten standard colors as well as custom colors that can be made upon request.



ACRYLITE® AR Abrasion Resistant acrylic sheet utilizes an abrasion resistant coating for greater protection from scratching and marring due to frequent public contact and is ideal for interior signs. This acrylic sheet is cost effective and offers superior optical clarity and a long service life.

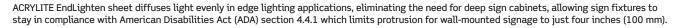
ACRYLITE AR sheet is available with a coating on one or both sides. Due to its outstanding chemical resistance, the coated side can be cleaned with common household cleaning supplies. When you add in its shatter resistance and easy fabrication and handling characteristics, ACRYLITE AR sheet is an excellent alternative to glass or other plastic materials.

# Acrylite. EndLighten

ACRYLITE® EndLighten acrylic sheet is specifically engineered for edge-lit applications. Formulated with neutral-color diffuser particles, ACRYLITE EndLighten sheet accepts light through its edge and redirects it to the surface, resulting in a bright and uniform illumination.

The lit edges of ACRYLITE EndLighten sheet should have smooth surfaces for enhanced light entry, which is easily done by buffing the edges. Edges that aren't lit should be covered with a reflective material such as adhesive tape to optimize sheet brightness.

Luminous displays can be installed with one or two radiant surfaces. If only one side is intended to emit light, a highly reflective cover should be provided on the back. Graphic images should be printed on light-diffusing film or paper so light is evenly distributed upon exiting ACRYLITE EndLighten sheet.









# **STERLING**

The proprietary designs of the Sterling Collection of ACRYLITE® acrylic sheet offer five decorative, silvery patterns with the look of metal and all the advantages of acrylic. Each design emits a spectacular reflective effect. The Sterling Collection is a lightweight, fabrication-friendly alternative to metal with the durability and impact resistance of acrylic sheet.

## Black/White

Black/White ACRYLITE® GP acrylic sheet appears dark by day and, with a little backlighting, glows white at night. It's manufactured from a special pigment formulation that yields 10-19% light transmittance when backlit, yet appears dark and opaque without backlighting. These features make Black/White ACRYLITE GP sheet a great solution for channel letters and faces.

# Spectacularly compatible with any LED application.

Whether they are for traffic control, the auto industry, underwater light applications or overhead lighting, LEDs are everywhere. And due to their low energy output, longer life span, low maintenance and vibration resistance, LEDs are fast becoming the most popular lighting technology for the sign industry. And while ACRYLITE sheet products perform exceptionally well with all light sources, it seems to be especially true with LEDs.

Many ACRYLITE SG, FF, GP and Satin Ice sheet colors have proven that they can outperform other substrates and are quickly becoming the industry standard for light transmission and the elimination of hot spots in LED applications.





# Acrylite Specifications at-a-glance.

		Physical Prop	erties of ACRYLITE Acry	lic Sheet	
PROPERTY <sup>(a)</sup>		ASTM	TYPICAL VALUE <sup>(b)</sup>		
		METHOD	FF	GP	SG
Mechanical	Sheet Thickness Tested		0.250"	0.236"	0.118"
	Specific Gravity	D 792	1.19	1.19	1.17
	Tensile Strength		10,000 psi (69 MPa)	10,000 psi (69 MPa)	8,900 psi (61 MPa)
	Elongation, Rupture	D 638	4.5%	4.2%	4.8%
	Modulus of Elasticity		400,000 psi (2800 MPa)	400,000 psi (2800 MPa)	350,000 psi (2450 MPa)
	Flexural Strength	D 790	17,000 psi (117 MPa)	16,500 psi (114 MPa)	14,000 psi (96 MPa)
	Modulus of Elasticity		480,000 psi (3300 MPa)	475,000 psi (3300 MPa)	330,000 psi (2270 MPa)
	Impact Strength	D 256	0.4 ft-lbs/in of notch	0.4 ft-lbs/in of notch	0.63 lbs/in of notch
	Izod Milled Notch		(21.6 J/m of notch)	(21.6 J/m of notch)	(34 J/m of notch)
	Rockwell Hardness	D 785	M-93	M-94	M-70
Optical	Refractive Index	D 542	1.49	1.49	1.49
	Light Transmission, Total	D 1003	92%	92% (clear material)	90%
Thermal	Forming Temperature		Approx. 300°F (149°C)	340-380°F (170-190°C)	270-350°F (135-175°C)
	Deflection Temperature				
	under load, 264 psi	D 648	195°F (91°C)	210°F (99°C)	199°F (93°C)
	Vicat Softening Point	D 1525	220°F (105°C)	239°F (115°C)	223°F (106°C)
	Maximum Recommended				
	Continuous Service	_	160°F <sup>(c)</sup> (71°C)	180°F <sup>(d)</sup> (82°C)	160°F <sup>(c)</sup> (71°C)
	Temperature				
	Coefficient of Linear	D 696	0.000040 in/in-°F	0.000040 in/in-°F	0.000044 in/in-°F
	Thermal Expansion		(0.000072 m/m-°C)	(0.000072 m/m-°C)	(0.000080 m/m-°C)
	Flammability, Burning Rate	D 635	1.0 in/min.	1.2 in/min.	1.0 in/min.
	(0.125" thickness)		(25 mm/min.)	(30.5 mm/min.)	(25 mm/min.)
	Self Ignition Temperature	Ignition Temperature D 1929		910°F (490°C)	842°F (450°C)
	Smoke Density Rating	D 2843	4.80%	11.40%	3.80%
Water Absorption	24 hrs @ 73°F	D 570	0.2%	0.2%	0.3

(b) Some values will change with thickness or pigmentation.

(a) Typical values; should not be used for specification purposes. (c) It is recommended that temperatures not exceed 160°F for continuous service, or 190°F for short intermittent use. (d) It is recommended that temperatures not exceed 180°F for continuous service, or 200°F for short, intermittent use.

For the physical properties of Satin Ice, AR, Sterling Collection, Black/White and EndLighten, visit the TechKnowlogy Center at www.cyro.com.

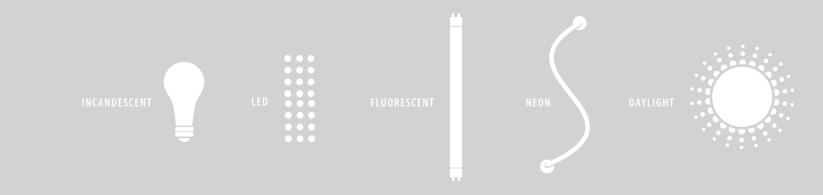
		YLITE Acrylic oduct Color C		nce
ACRYLITE Product	Color	CYRO Color Number	Pantone Color Number	R & H Color Number
	Red	211-1	201C	2283
	Red	205-0	201C	2157
	Red	278-0	187C	2793
	Yellow	407-2	Yellow C	2037
SG	Blue	605-0	288C	2114
	Dark Green	5200-0	3305C	—
	Black	199-0	Black C	2025
	White	015-2	—	7328
	Colorless	011-9	—	—
	Bronze	126-4	404	2404
	Bronze	131-2	405C	2412
	Bronze	311-1	412C	2370
	Grey	103-2	5477	2064
	Grey	104-1	419	2074
FF	White	097-0	—	2371
	White	015-2	—	7328
	White	020-4	—	2447
	White	020HG	—	2447
	Glass Green	5110-9	—	3030
	Black	199HG	Black C	2025
	Med. Blue	6194-5	299C	3166
	Dark Blue	6198-0	288C	3162
	Light Grey	ght Grey 1239-7		3160
Satin Ice	Light Green	5170-8	621C	3167
	Black	ack 1235-0 Black		3165
	White	0149-5	_	W3172
	Colorless	0918-8	—	
GP	Custom colors made-to-order with minimum order quantities as low as 1 case!			

ACRYLITE Acrylic Sheet Standard Sheet Sizes					
ACRYLITE Product	Form	Standard Thickness	Standard Sheet Sizes		
		0.118" (3mm)	51" x 100" (1295mm x 2540mm)		
SG	Sheet	0.177" (4.5mm)	51" x 100", 75" x 100", 75" x 125" (1295 x 2540mm, 1905 x 2549mm, 1905 x 3175mm)		
	Reels	0.118", 0.150", 0.177", 0.236"	4', 5', 6', and 8' widths available		
		(3, 3.8, 4.5, 6mm)	(1219, 1524, 1829 and 2440mm)		
FF	Sheet	0.060", 0.080", 0.098", 0.118", 0.177", 0.220", 0.236", 0.354", 0.472", 0.708", 0.944"	48" x 96", 48" x 120", 51" x 100", 60" x 96", 60" x 120", 72" x 96", 72" x 120", 75" x 100"		
		(1.5, 2, 2.5, 3, 4.5, 5.6, 6, 9, 12, 18, 24mm)	(1220 x 2440mm, 1220 x 3048mm, 1295 x 2540mm, 1524 x 2440mm, 1524 x 3048mm, 1829 x 2440mm, 1829 x 3048mm, 1905 x 2540mm)		
Satin Ice	Sheet	0.118", 0.177", 0.236", 0.354", 0.472"	49" x 97"		
		(3, 4.5, 6, 9, 12mm)	(1245mm x 2464mm)		
GP	Sheet	0.060" - 2.0" (1.5mm - 51mm)	48" x 96", 60" x 96", 72" x 96" (1220 x 2440mm, 1524 x 2440mm, 1829 x 2440mm)		
AR	Sheet	0.060", 0.080", 0.098", 0.118", 0.177", 0.236", 0.354", 0.472" (1.5, 2, 2.5, 3, 4.5, 6, 9, 12mm)	48" x 96", 60" x 96", 72" x 96" (1220 x 2440mm, 1524 x 2440mm,		
		(1.3, 2, 2.3, 3, 4.3, 0, 9, 121111)	1829 x 2440mm)		
Sterling Collection	Sheet	0.118" (3mm)	48" x 96" (1220 x 2440mm)		
Black/ White	Sheet	0.118", 0.177", 0.236", 0.354" (3, 4.5, 6, 9mm)	48" x 96", 60" x 96", 72" x 96" (1220 x 2440mm, 1524 x 2440mm, 1829 x 2440mm)		
EndLighten	Sheet	0.236", 0.315", 0.394", 0.472" (6, 8, 10, 12mm)	80" x 120" (2030 x 3048mm)		



### For amazing signs that perform with any light source.

Only one company can claim to be the world's largest manufacturer of acrylic sheet...and that company is CYRO. As a wholly-owned subsidiary of Degussa, CYRO has both the broad technological and global resources to respond to any market demand. We've been manufacturing high-quality sheet products and providing our customers with outstanding service, which includes everything from customized technical advice to an outstanding delivery capacity, since 1976. And with our family of ACRYLITE® acrylic sheet products, we have proven to be an invaluable partner for everyone in the sign industry. Known worldwide for vibrant colors, luxurious textures and outstanding light diffusion, ACRYLITE sheet performs remarkably well with daylight as well as incandescent, LED, fluorescent and neon light sources. So, for superior signage in any light, choose CYRO's ACRYLITE sheet products.



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information, or to I	ocate
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TECHNICAL SUPPORT

Visit the TechKnowlogy Center at www.cyro.com where visitors have immediate access to FAQ, technical information, tips and hundreds of other facts about acrylic sheet products.

### IMPORTANT

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#### **FIRE PRECAUTIONS**

ACRYUTE GP and ACRYUTE FF acrylic sheet are combustible thermoplastics. Precautions should be taken to protect these materials from flames and high heat sources. ACRYUTE GP and ACRYUTE FF sheet usually burn rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be present and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgement in the use of these versatile materials and recommend that building codes be followed carefully to assure they are used properly.



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