



SECTION D: SUBSTRATES

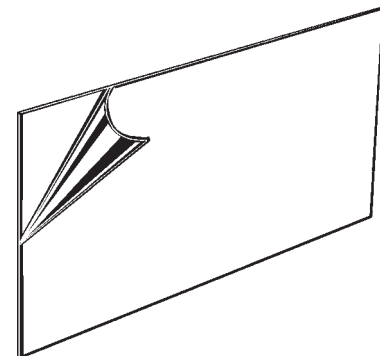
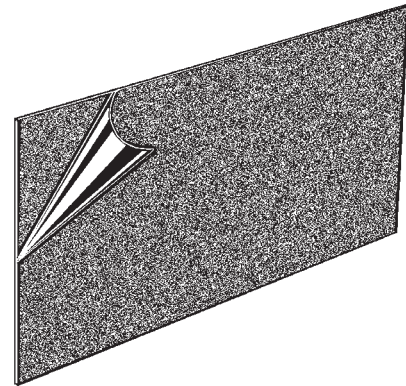
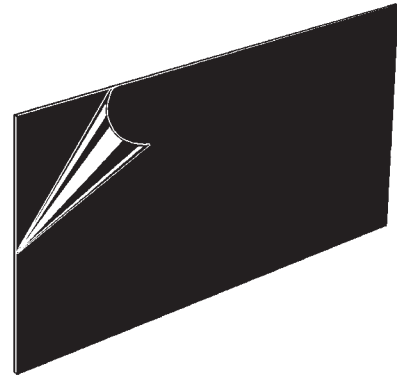


PRE-FINISHED ALUMINUM SHEETS

Used by sign builders for faces, cabinets, returns, etc. Second surface of enameled sheets are finished white which enhances reflectiveness inside sign cabinets. Sheets are 3105 aluminum alloy with a high quality baked enamel or anodized finish. Sheets are protected with poly-film on the first surface. Other colors and sizes also available.

Catalog Number	Color 1st Surface	Dimensions		Thickness (Inches)	Color 2nd Surface
		Width	Length		
48040PW	Polar White	48"	96"	.040	White
48050PW	Polar White	48"	96"	.050	White
48063PW	Polar White	48"	96"	.063	White
48080PW	Polar White	48"	96"	.080	White
410032PW	Polar White	48"	120"	.032	White
410040PW	Polar White	48"	120"	.040	White
410050PW	Polar White	48"	120"	.050	White
410063PW	Polar White	48"	120"	.063	White
410080PW	Polar White	48"	120"	.080	White
58040PW	Polar White	60"	96"	.040	White
510040PW	Polar White	60"	120"	.040	White
48040RB	Raven Black	48"	96"	.040	White
410040RB	Raven Black	48"	120"	.040	White
410050RB	Raven Black	48"	120"	.050	White
410063RB	Raven Black	48"	120"	.063	White
48040MB	Matte Black	48"	96"	.040	White
410040MB	Matte Black	48"	120"	.040	White
48032BGA	Brite Gold Anodized	48"	96"	.032	Clear Anod.
410032BGA	Brite Gold Anodized	48"	120"	.032	Clear Anod.
410040BGA	Brite Gold Anodized	48"	120"	.040	Clear Anod.
48032GSA	Gold Satin Anodized	48"	96"	.032	Clear Anod.
410032GSA	Gold Satin Anodized	48"	120"	.032	Clear Anod.
48032BBGA	Brite Brushed Gold Anodized	48"	96"	.032	Clear Anod.
410032BBGA	Brite Brushed Gold Anodized	48"	120"	.032	Clear Anod.
410040BBGA	Brite Brushed Gold Anodized	48"	120"	.040	Clear Anod.
48032BCA	Brite Clear Anodized	48"	96"	.032	Clear Anod.
48040BCA	Brite Clear Anodized	48"	96"	.040	Clear Anod.
410032BCA	Brite Clear Anodized	48"	120"	.032	Clear Anod.
410040BCA	Brite Clear Anodized	48"	120"	.040	Clear Anod.
48032CSA	Clear Satin Anodized	48"	96"	.032	Clear Anod.
410040CSA	Clear Satin Anodized	48"	120"	.040	Clear Anod.
48032BBCA	Brite Brushed Clear Anodized	48"	96"	.032	Clear Anod.
48040BBCA	Brite Brushed Clear Anodized	48"	96"	.040	Clear Anod.
410032BBCA	Brite Brushed Clear Anodized	48"	120"	.032	Clear Anod.
410040BBCA	Brite Brushed Clear Anodized	48"	120"	.040	Clear Anod.
410040ADB	Alliance Dark Bronze	48"	120"	.040	White
410063ADB	Alliance Dark Bronze	48"	120"	.063	White
48040HR	Hunter Red	48"	96"	.040	White
410040HR	Hunter Red	48"	120"	.040	White
48040HB	Heron Blue	48"	96"	.040	White
48040PB	Pepsi Blue	48"	96"	.040	White
410040IG	Ivy Green	48"	120"	.040	White
48040AY	Alliance Yellow	48"	96"	.040	White
410040AY	Alliance Yellow	48"	120"	.040	White
48040ACY ⁽¹⁾	Caution Yellow	48"	96"	.040	Caution Yellow
48040AI	Alliance Ivory	48"	96"	.040	White
410040AI	Alliance Ivory	48"	120"	.040	White
48040MT	Mocha Tan	48"	96"	.040	White

NOTE: ⁽¹⁾ Masked on both sides.

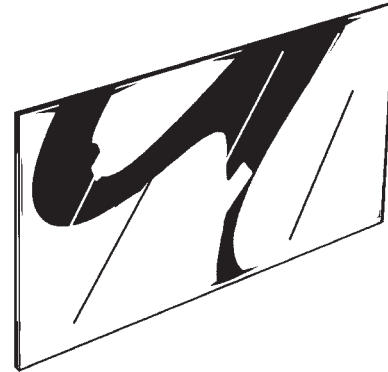


Substrates

MILL FINISHED ALUMINUM SHEETS

Used for cabinet, face and back construction on signs. 5052H32 is an anodizing quality alloy with a smoother surface than general purpose sheet (GPS) aluminum.

Catalog Number	Dimensions		Thickness (Inches)	Weight (Lbs.)
	Width	Length		
410063MF	48"	120"	.063	38
412063MF	48"	144"	.063	42
410090MF	48"	120"	.090	50
412090MF	48"	144"	.090	60
410125MF	48"	120"	.125	75
412125MF	48"	144"	.125	84



ALUCOBOND ^(U)



Alucobond® is a composite consisting of two sheets of .020" aluminum with a polyethylene core. It can be fabricated by methods and equipment traditionally used with metal, plastic or wood. It is virtually flat yet bends and forms easily. It has a high strength-to-weight ratio and high weather resistance. The white polyester resin finish is a suitable primer coat for other field applied colors. 1st surface is protected with a polymask film. Available in almost any size. Custom colors available with quantity order.

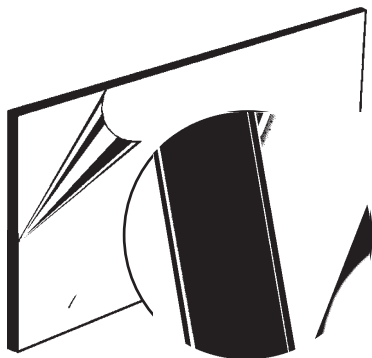
Catalog Number	Color 1st Surface	Dimensions		Thickness (mm)	Color 2nd Surface	Put Up	Weight (Lbs.)
		Width	Length				
CO202-418	White	50"	98"	3	White	10	29
CO202-444	White	62"	122"	3	White	10	55
CO202-618	White	50"	98"	4	White	10	36
CO202-620	White	50"	122"	4	White	10	45
CO202-644	White	62"	144"	4	White	10	67

CUTTING: Alucobond® can be cut with circular, band or sabre saws, or by shearing. It can also be drilled and routed.

BENDING: Minimum bending radius is 15 times the panel thickness. Springback is similar to that experienced with sheet metal. Curve with pyramid roller, press break or stationary pipe die.

JOINING AND ATTACHING: Butt joints are usually made by hot-air-welding, attachment made by screws, rivets or VHB double face tape. Materials that can be joined to Alucobond® include aluminum, plastic, stainless steel, coated steel (with cadmium, zinc, chrome or aluminum coating) and organic materials. Copper, bronze, brass and iron should not be joined because electrolysis will cause corrosion.

SILK-SCREENING: Alucobond® is suitable for silk-screening. For outdoor exposure it is recommended to overpaint with a colorless protective coating.



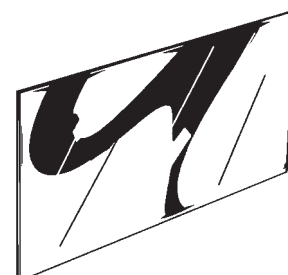
Substrates

DIBOND ^(U)



Dibond® is a composite consisting of two sheets of .010" aluminum with a polyethylene core. It has the same characteristics as Alucobond® but is more economical. Dibond® is intended for such applications as signage, screen printing, exhibit/display, digital mounting as well as OEM industrial applications. Surfaces have a high quality polyester resin finish. First surface is protected with a polymask film. Fabrication information is the same as when working with Alucobond®.

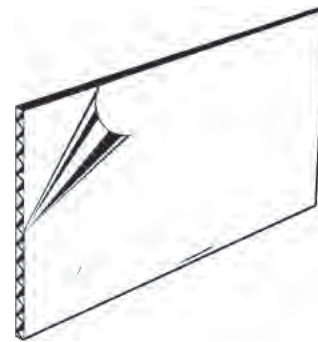
Catalog Number	Color 1st Surface ⁽¹⁾	Dimensions		Thickness (mm)	Approx. Weight (Lbs.)
		Width	Length		
D0202-318	White	48"	96"	2	18
D0202-320	White	48"	120"	2	23
D0202-418	White	48"	96"	3	24
D0202-618	White	48"	96"	4	23
D0201-420	Black	48"	120"	3	30



NOTE: ⁽¹⁾ 2nd surface color is white.

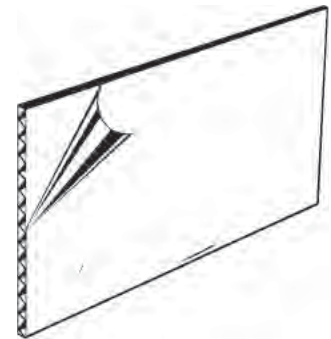
ALUMALITE

Alumalite® is a two-sided aluminum surfaced, corrugated polyethylene core panel. Alumalite® can be used as a letterback in place of wood core letterback products or as a routed face without changes to UL procedures. Alumalite® cuts and routs easily using standard woodcutting tools. A V-groove can be routed in a panel and bent to make a 90° return or lettering can be routed out and backed up with a push through, translucent plexiglas panel for a backlit sign face. Smooth surfaces require little or no preparation and are suitable for paints, screen print inks and pressure sensitive vinyls. The high strength-to-weight ratio and weather resistance make it unnecessary to use edge sealing when used outdoors, although edge capping is available if desired. Alumalite® is UV and temperature resistant with a "Class A" flame-spread rating and is a recognized component of electrical signs, file number E60612. Both surfaces are protected with a polymask film.



Catalog Number	Color 1st Surface	Color 2nd Surface	Dimensions		Thickness ⁽¹⁾ (mm)	Weight (Lbs.)
			Width	Length		
LAM-AL01-718	Black	Black	48"	96"	6	18
LAM-AL02-718	White	White	48"	96"	6	18
LAM-AL02-720	White	White	48"	120"	6	23
LAM-AL02-740	White	White	60"	96"	6	23
LAM-AL02-744	White	White	60"	120"	6	29
LAM-AL03-718	Red	Red	48"	96"	6	18
LAM-AL05-718	Yellow	Yellow	48"	96"	6	18
LAM-AL06-718	Ivy Green	Ivy Green	48"	96"	6	18
LAM-AL07-718	Blue	Blue	48"	96"	6	18
LAM-AL11-718	Bronze	Bronze	48"	96"	6	18
LAM-AL12-718	Ivory	Ivory	48"	96"	6	18
LAM-AL20-718	Silver	Silver	48"	96"	6	18

NOTE: ⁽¹⁾ Thickness may vary by up to 2mm (.093") less than indicated.

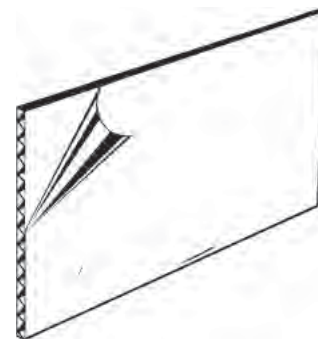


ECONOLITE

Econolite™ is a corrugated polyethylene core panel with a white aluminum smooth surface on one side and a mill finish backer. An economical alternative for one-sided applications.

Catalog Number	Color 1st Surface	Color 2nd Surface	Dimensions		Thickness ⁽¹⁾ (mm)	Weight (Lbs.)
			Width	Length		
LAM-EL02-718	White	Mill	48"	96"	6	18
LAM-EL02-818	White	Mill	48"	96"	10	29

NOTE: ⁽¹⁾ Thickness may vary by up to 2mm (.093") less than indicated.

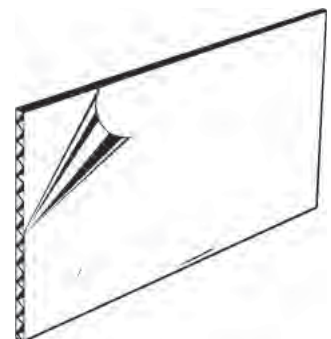


D-LITE

D-Lite™ incorporates the same qualities as Alumalite® and Econolite™ in an economical 3mm thickness. Available in 1 or 2 sided finished material.

Catalog Number	Color 1st Surface	Color 2nd Surface	Dimensions		Thickness ⁽¹⁾ (mm)	Weight (Lbs.)
			Width	Length		
LAM-D2-1-418	White	Mill	48"	96"	3	15
LAM-D2-1-420	White	Mill	48"	120"	3	19
LAM-D2-2-418	White	White	48"	96"	3	17
LAM-D2-2-420	White	White	48"	120"	3	21

NOTE: ⁽¹⁾ Thickness may vary by up to 2mm (.093") less than indicated.





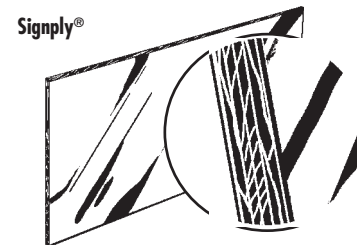
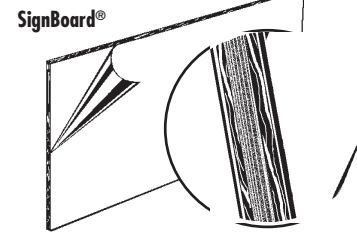
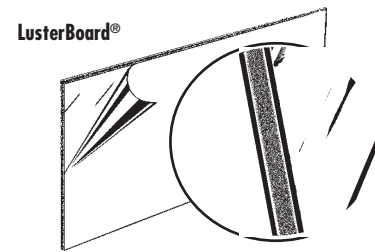
LAMINATED PLYWOOD PANELS

Omega SignBoard® is a high quality laminated panelboard constructed of premium grade exterior plywood, fully sanded and covered with a brilliant .015" white vinyl surface. It gives a ready-to-letter surface ideal for outdoor or indoor use. Edge finishing is recommended. SignBoard® has a 1 year limited manufacturers warranty if edges are sealed with paint or sealant and a 2 year limited warranty if edges are capped with Laminators brand edge cap. Both sides are film masked for protection.

Omega LusterBoard® has a mahogany plywood core with white high gloss painted .015 aluminum laminated to both sides. It provides a quality, ready-to-letter surface, as rigid and workable as MDO, that is ideal for indoor or outdoor use. It can be cut without chipping and will accept most standard bulletin enamel paints. Edge finishing is recommended. LusterBoard® has a 1 year limited manufacturers warranty if edges are sealed with paint or sealant and a 2 year limited warranty if edges are capped with Laminators edge cap. Both sides are film masked for protection.

Signply® panels are .015" smooth aluminum sheets, white on one side with a mill finish on the other, laminated to a plywood core. Can be used as backing for illuminated channel letters.

Edge cap is shown in the sign supplies section under Omega Edge Cap.

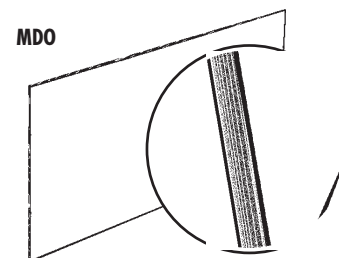


Catalog Number	Description	Dimensions		Thickness (Inches)	Weight/Sheet (Lbs.)
		Width	Length		
LAM-LB02-918	Omega Lusterboard	48"	96"	.25	34
LAM-LB02-918	Omega Lusterboard	48"	96"	.50	58
LAM-SB1-918	Omega Signboard with Vinyl on 1 Side	48"	96"	.50	53
LAM-SB2-918	Omega Signboard with Vinyl on 2 Sides	48"	96"	.50	56
LAM-SP-918	Signply	48"	96"	.50	52

Substrates

PREMIUM GRADE MDO

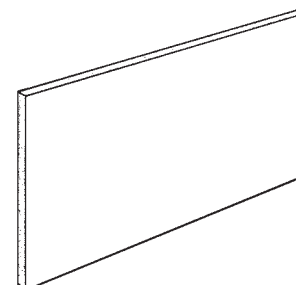
Premium grade Medium Density Overlay (MDO) panels are resin-impregnated fiber product surfaces laminated to an exterior grade plywood core. Painted MDO has a high quality semi-gloss white surface. MDO-EPS-918 is painted white on one side and primed on the other. Pre-primed white surfaces readily accept most decorative paints such as poster acrylics, latexes and enamels. Other variations may also be available.



Catalog Number	Description	Width	Length	Thickness (Inches)	Weight/Sheet (Lbs.)
MDO-G2S-918	Good 2 Sides, Premium Grade	48"	96"	.50	49
MDO-G2S-1118	Good 2 Sides, Premium Grade	48"	96"	.75	68
MDO-EPS-918	Painted White 1 Side, Primed 1 Side	48"	96"	.50	49
MDO-EPS-920	Painted White 1 Side, Primed 1 Side	48"	120"	.50	55
MDO-P1S-918	Primed 1 Side, Premium Grade	48"	96"	.50	49
MDO-P2S-918	Primed 2 Sides, Premium Grade	48"	96"	.50	49
MDO-P2S-1120	Primed 2 Sides, Premium Grade	48"	120"	.75	62

MDF • MEDEX

Industrial grade Medium Density Fiberboard (MDF) is manufactured with a formaldehyde-free binder which meets requirements of ANSI A208.2-1994, product class MD-exterior. MDF is available in many variations such as Medex, Medex NC, Medite II, etc. Differentiated by fiber origin such as softwood or hardwood, these products share common characteristics and are well known for their smooth surface, ease of workmanship and ability to take a precise machined edge or panel route. Medex and Medex NC are recommended for use in exterior signage, schools, museums, day care centers, libraries, medical and dental facilities, retirement homes and laboratories. Call for availability.



CYRO ACRYLITE GP • CELL CAST ACRYLIC SHEET



Acrylite GP is the highest quality cell-cast acrylic sheet made to exacting standards. It offers excellent optical characteristics, thickness tolerances, light stability and low internal stress levels for consistent performance.

Acrylite GP is a lightweight, rigid thermoplastic material that has many times the breakage resistance of standard window-pane glass. It is highly resistant to weather conditions. Can be easily sawed, machined, thermoformed, and cemented. Suitable for most commercial applications and is ultraviolet light absorbing up to approximately 360 nanometers. It's unique properties are ideal for a wide range of applications such as signs, merchandising displays, lighting fixture diffusers, decorative paneling, security glazing, aquariums, hockey rinks, industrial and school glazing, shower enclosures and skylights.

Clear/colorless Acrylite GP acrylic sheet carries an exclusive 10-year limited warranty on light transmission.

Acrylite GP sheet is available in thicknesses from .060" to 2" (1.5mm to 50mm) and in more than 40 standard sizes from 36" x 48" to 72" x 120". All sheets are papermasked on both sides. Custom colors also available.

Catalog Number	Color Reference Number	Color	Dimensions		Thickness (Inches)
			Width	Length	
GP-418	-	Clear	51"	100"	.118
GP-618	-	Clear	51"	100"	.177
GP-718	-	Clear	51"	100"	.236
GP-818	-	Clear	49.75"	99"	.354
GP-918	-	Clear	49.75"	99"	.472
GP-1118	-	Clear	48.50"	97"	.708
GP-1318	-	Clear	48.50"	97"	.944
GP-1518	-	Clear	48.50"	97"	1.50
GP-1718	-	Clear	48.50"	97"	2.00
GP015-2-418	7328	White	51"	100"	.118
GP015-2-420	7328	White	50"	126"	.118
GP015-2-444	7328	White	63"	126"	.118
GP015-2-456	7328	White	75"	102"	.118
GP015-2-458	7328	White	75"	126"	.118
GP015-2-614	7328	White	51"	75"	.177
GP015-2-618	7328	White	51"	126"	.177
GP015-2-640	7328	White	51"	126"	.177
GP015-2-640	7328	White	63"	102"	.177
GP015-2-644	7328	White	63"	126"	.177
GP015-2-656	7328	White	75"	100"	.177
GP015-2-658	7328	White	75"	126"	.177
GP015-2-718	7328	White	51"	100"	.236
GP015-2-918	7328	White	49.75"	99"	.472
GP076-0-418	7508	White	51"	100"	.118
GP020-4-418	2447	White	51"	100"	.118
GP020-4-656	2447	White	75"	100"	.177
GP199-0-418	2025	Black	51"	100"	.118
GP199-0-618	2025	Black	51"	100"	.177
GP199-0-656	2025	Black	75"	100"	.177
GP199-0-718	2025	Black	51"	100"	.236
GP199-0-918	2025	Black	49.75"	99"	.472
GP605-0-418	2114	Blue	51"	100"	.118
GP605-0-456	2114	Blue	75"	100"	.118
GP605-0-618	2114	Blue	51"	100"	.177
GP605-0-656	2114	Blue	75"	100"	.177
GP606-0-418	2050	Blue	51"	100"	.118
GP606-0-618	2050	Blue	51"	100"	.177
GP606-0-656	2050	Blue	75"	100"	.177
GP607-1-418	2051	Blue	51"	100"	.118
GP607-1-618	2051	Blue	51"	100"	.177
GP607-1-656	2051	Blue	75"	100"	.177
GP693-0-418	2648	Blue	51"	100"	.118
GP311-1-656	2370	Bronze	75"	100"	.177
GP131-2-656	2412	Bronze	51"	100"	.177

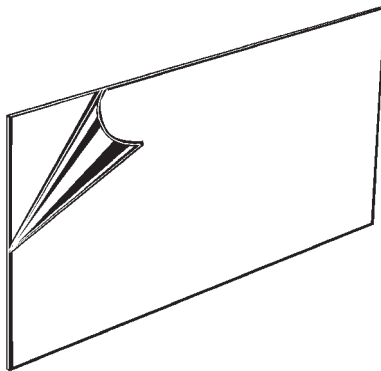
Catalog Number	Color Reference Number	Color	Dimensions		Thickness (Inches)
			Width	Length	
GP324-0-418	2418	Brown	51"	100"	.118
GP324-0-618	2418	Brown	75"	100"	.177
GP506-0-418	2030	Green	51"	100"	.118
GP506-0-618	2030	Green	51"	100"	.177
GP506-0-656	2030	Green	75"	100"	.177
GP507-0-418	2108	Green	51"	100"	.118
GP507-0-618	2108	Green	51"	100"	.177
GP507-0-656	2108	Green	75"	100"	.177
GP047-2-418	2146	Ivory	51"	100"	.118
GP047-2-618	2146	Ivory	51"	100"	.177
GP047-2-620	2146	Ivory	51"	126"	.177
GP047-2-640	2146	Ivory	63"	100"	.177
GP047-2-656	2146	Ivory	75"	100"	.177
GP047-2-658	2146	Ivory	75"	126"	.177
GP303-0-418	2119	Orange	51"	100"	.118
GP303-0-618	2119	Orange	51"	100"	.177
GP303-0-656	2119	Orange	75"	100"	.177
GP303-0-658	2119	Orange	75"	126"	.177
GP205-0-418	2157	Red	51"	100"	.118
GP211-1-418	2283	Red	51"	100"	.118
GP211-1-456	2283	Red	75"	100"	.118
GP211-1-618	2283	Red	51"	100"	.177
GP211-1-656	2283	Red	75"	100"	.177
GP209-0-418	2415	Red	51"	100"	.118
GP209-0-618	2415	Red	51"	100"	.177
GP209-0-656	2415	Red	75"	100"	.177
GP278-0-418	2793	Red	51"	100"	.118
GP278-0-456	2793	Red	75"	100"	.118
GP278-0-618	2793	Red	51"	100"	.177
GP278-0-656	2793	Red	75"	100"	.177
GP278-0-658	2793	Red	75"	126"	.177
GP702-0-418	2287	Violet	51"	100"	.118
GP407-2-418	2037	Yellow	51"	126"	.118
GP407-2-456	2037	Yellow	75"	126"	.118
GP407-2-618	2037	Yellow	51"	126"	.177
GP407-2-640	2037	Yellow	63"	126"	.177
GP407-2-656	2037	Yellow	75"	126"	.177
GP407-2-658	2037	Yellow	75"	126"	.177
GP432-2-418	2465	Yellow	51"	100"	.118
GP432-2-456	2465	Yellow	75"	100"	.118
GP432-2-618	2465	Yellow	51"	100"	.177
GP432-2-656	2465	Yellow	75"	100"	.177
GP406-1-418	2016	Yellow	51"	100"	.118
GP406-1-618	2016	Yellow	51"	100"	.177
GP406-1-656	2016	Yellow	75"	100"	.177
GP121-0-456	2349	Gray	75"	100"	.118

Substrates

CYRO ACRYLITE FF ACRYLIC SHEET

Acrylite FF acrylic sheet is a continuously manufactured acrylic sheet. It is produced by an innovative process, resulting in a sheet offering the easy handling and processing of extruded sheet along with the high optical characteristics and low stress levels expected of cast products. Acrylite FF is a lightweight, rigid and weather-resistant thermoplastic. It is dimensionally stable and resistant to breakage and can easily be sawed, machined, heat-formed and cemented.

Clear and white sheets have clear film mask on both sides, all other colors are paper masked on both sides. Other sizes and colors also available.



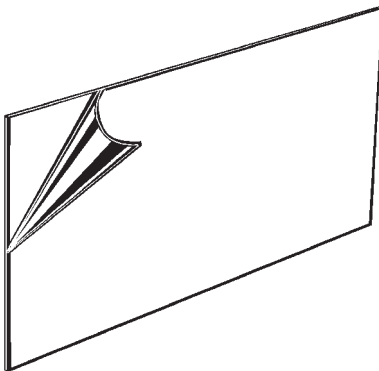
Substrates

Catalog Number	Color Reference	Color	Dimensions		Thickness (Inches)
			Width	Length	
FF-418	-	Clear	48"	96"	.118
FF-456	-	Clear	72"	96"	.118
FF-618	-	Clear	48"	96"	.177
FF-718	-	Clear	48"	96"	.236
FF015-2-418	7328	White	48"	96"	.118
FF015-2-420	7328	White	48"	120"	.118
FF015-2-456	7328	White	72"	96"	.118
FF015-2-618	7328	White	48"	96"	.177
FF015-2-620	7328	White	48"	120"	.177
FF015-2-644	7328	White	60"	120"	.177
FF015-2-656	7328	White	72"	96"	.177
FF015-2-658	7328	White	72"	120"	.177
FF020-4-418	2447	White	48"	96"	.118
FF020-4-718	2447	White	48"	96"	.236
FF199HG-418	2025	Black	48"	96"	.118
FF199HG-456	2025	Black	72"	96"	.118
FF199HG-618	2025	Black	48"	96"	.177
FF199HG-656	2025	Black	72"	96"	.177
FF605-0-418	2114	Blue	48"	96"	.118
FF606-0-418	2050	Blue	48"	96"	.118
FF311-1-418	2370	Bronze	48"	96"	.118
FF311-1-618	2370	Bronze	48"	96"	.177
FF507-0-418	2108	Green	48"	96"	.118
FF047-2-418	2146	Ivory	48"	96"	.118
FF303-0-418	2119	Orange	48"	96"	.118
FF205HG-418	2157	Red	48"	96"	.118
FF211-1-418	2283	Red	48"	96"	.118
FF278-0-418	2793	Red	48"	96"	.118
FF278-0-618	2793	Red	48"	96"	.177
FF278-0-656	2793	Red	72"	96"	.177
FF407-2-418	2037	Yellow	48"	96"	.118
FF407-2-618	2037	Yellow	48"	96"	.177

CYRO ACRYLITE SG • IMPACT MODIFIED SHEET

Acrylite SG is an impact modified acrylic sheet developed specifically for use in the sign industry. It offers excellent weatherability, additional impact strength and can easily be fabricated by cutting, routing, drilling, cementing, thermoforming and is paintable. Also resists chipping and melting while providing excellent color consistency and thickness tolerance. A Sign Fabrication Manual for Acrylite SG is available upon request detailing simple fabrication & handling techniques.

All sheets are paper masked on both sides.



Catalog Number	Color Reference	Color	Dimensions		Thickness (Inches)
			Width	Length	
SG015-2-418	7328	White	51"	100"	.118
SG015-2-618	7328	White	51"	100"	.177
SG015-2-656	7328	White	75"	100"	.177
SG015-2-658	7328	White	75"	125"	.177
SG-418	-	Clear	51"	100"	.118
SG-618	-	Clear	51"	100"	.177
SG-656	-	Clear	75"	100"	.177
SG-658	-	Clear	75"	125"	.177
SG199-0-418	2025	Black	51"	100"	.118
SG199-0-618	2025	Black	51"	100"	.177
SG199-0-656	2025	Black	75"	100"	.177
SG605-0-418	2114	Blue	51"	100"	.118
SG605-0-618	2114	Blue	51"	100"	.177
SG605-0-656	2114	Blue	75"	100"	.177
SG205-0-418	2157	Red	51"	100"	.118
SG205-0-618	2157	Red	51"	100"	.177
SG205-0-656	2157	Red	75"	100"	.177
SG211-1-418	2283	Red	51"	100"	.118
SG211-1-618	2283	Red	51"	100"	.177
SG211-1-656	2283	Red	75"	100"	.177
SG278-0-418	2793	Red	51"	100"	.118
SG278-0-618	2793	Red	51"	100"	.177
SG278-0-656	2793	Red	75"	100"	.177
SG407-2-418	2037	Yellow	51"	100"	.118
SG407-2-618	2037	Yellow	51"	100"	.177
SG407-2-656	2037	Yellow	75"	100"	.177

SPECIALTY PLASTIC SHEET • P95 FINISH

Cyro P95 finish is a matte, low-reflective surface on a GP cell-cast acrylic sheet which some designers feel lends a dignity to sign faces, especially when applied to earth tones. Financial institutions and hospitals sometimes find this finish appropriate for outdoor signage. Other colors, sizes and a two-sided version also available.

Catalog Number	Finish	Color	Dimensions		Thickness (Inches)	Protection
			Width	Length		
GPP95-418	P95	Clear	51"	100"	.118	Paper, 2 Sides
GP199P95-418	P95	Black	51"	100"	.118	Paper, 2 Sides
GP0152P95418	P95	White	51"	100"	.118	Paper, 2 Sides
GP324P95-418	P95	Brown	51"	100"	.118	Paper, 2 Sides

SPECIALTY PLASTIC SHEET • FRAMING GRADE TYPES

Acrylite FF-3 Framing Grade sheet is the highest quality acrylic sheet available for the framing market. Continuously manufactured using a proprietary process, Acrylite FF3 sheet is guaranteed to be defect free. Other sizes and widths also available.

Acrylite OP-3 acrylic sheet is a continuously manufactured acrylic sheet specifically formulated to offer excellent ultraviolet (UV) filtering characteristics. Its light weight, superior impact resistance and ease of fabrication make it an ideal choice for framing articles of value. Acrylite OP-3 sheet is also available with a matte P-99 finish to reduce glare. Acrylite AR OP-3 sheet combines the same UV protection with an abrasion and chemical resistant coating. Selected items stocked, others available upon request.

Catalog Number	Color	Dimensions		Thickness (Inches)	Protection
		Width	Length		
FF3-018	Clear	48"	96"	.090	Film, 2 Sides
FF3-318	Clear	48"	96"	.098	Film, 2 Sides
FF3-318M	Clear	48"	96"	.098	Paper, 2 Sides
FF3-418M	Clear	48"	96"	.118	Paper, 2 Sides
OP3-418M	Clear, UV Filtering	48"	96"	.118	Paper, 2 Sides

SPECIALTY PLASTIC SHEET • NON-GLARE

NGCA Non-Glare sheets have a fine matte surface for read-through architectural signage applications. It has only moderate impact resistance but is economical and of adequate strength for indoor signage.

Catalog Number	Finish	Color	Dimensions		Thickness (Inches)	Protection
			Width	Length		
NGCA-114	Non-Glare	Colorless	48"	72"	.060	Film, 2 Sides
NGCA-218	Non-Glare	Colorless	48"	96"	.080	Film, 2 Sides
NGCA-318	Non-Glare	Colorless	48"	96"	.100	Film, 2 Sides
NGCA-418	Non-Glare	Colorless	48"	96"	.125	Film, 2 Sides

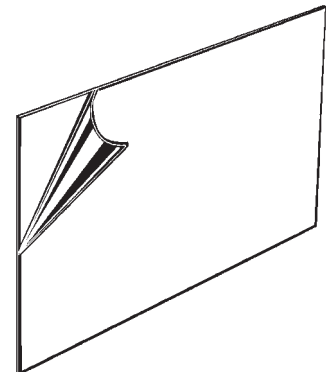
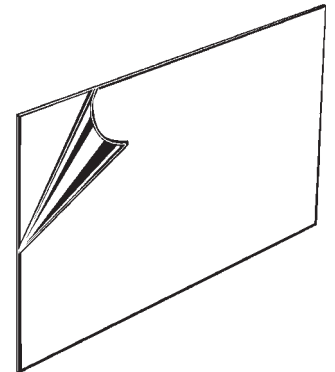
SPECIALTY BLACK & WHITE PLASTIC SHEET

By using Black & White sheets, "secret sign effects" can be obtained. Copy is visible on the front sign face only when backlit. Sign face appears black when not illuminated. To achieve the "secret sign effect" the back of the sheet is covered with opaque black film out of which has been cut the copy. The opaque black film is spray-painted white before it is applied to the face to increase the reflectivity inside the sign can. This treatment will produce white copy when illuminated. Colored copy can be achieved by covering those areas cut out of the opaque black film with transparent colored film. All sheets paper masked 2 sides.

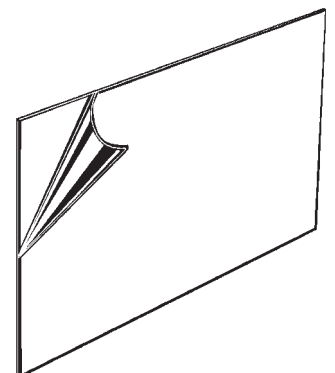
Catalog Number	Dimensions		Thickness (Inches)	Mfgr
	Width	Length		
3063P95M-618	50"	99"	.177	Atofina Atofina
3063P95M-656	74"	99"	.177	
GP1124-1-618	51"	100"	.177	Cyro Cyro
GP1124-1-656	75"	100"	.177	

GLASS GREEN & EDGE LIGHT PLASTIC SHEET

Glass Green acrylic sheet gives the impression of glass through its subtle tinting and green edge. Exotic Edge light colors "Glow" on all edges and is available in several colors. Useful in creating eye-catching interior POP displays, store fixtures and signs. Selected items stocked, others available upon request.



Substrates



**CYRO vs. ATOHAAS/ARISTECH
Color Cross Reference Chart**

Substrates

Color	Atohaas/Aristech	Cyro
White	TL 7328	015-2
White	TL 2447	020-4
Ivory	TL 2146	047-2
White	TL 7420	048-2
White	TL 2067	051-6
White	TL 7138	054-3
White	O 2371/3015	064-0
White	TL 7508	076-0
White-antique	O -	0111-0
White	TL 2670	0115-6
White	O -	0121-0
White-off	O -	0123-0
White	O -	0126-0
Bone	O -	0124-0
Shell	O -	0129-0
White	O -	0130-0
Gray	T 2064	103-2
Gray	T 2074	104-1
Gray	T -	115-0
Gray-slate	O 2349	121-0
Bronze	T 2404	126-4
Bronze	T 2412	131-2
Gray	T 2537	140-3
Gray	T 2514	141-5
Gray	T 2538	142-1
Gray	T 2094	143-4
Gray	T 2515	144-7
Bronze	T 2539	145-5
Bronze	T 2540	146-7
Black	O 2022	137-0
Black	O 2025	199-0
Gray-medium	O 2348	1107-0
Black/White	TL -	1124-1
Gray	T -	1142-1
Black, IRT	T 2650	1146-0
Gray	T 2515	1170-7
Gray	T 2515	1172-7
Gray	T 2514	1174-5
Gray	T 2540	1186-7
Gray	O -	1209-0
Orange	TL 2119	303-0
Bronze	T 2370	311-1
Brown	O 2418	324-0
Orange	TL 2564	338-1

Color	Atohaas/Aristech	Cyro
Red	TL 2662	202-0
Red	TL 2157	205-0
Red	TL 2115	207-0
Red	TL 2415	209-0
Red	T 2444	210-0
Red	TL 2283	211-1
Red	TL 2262	217-0
Red	TL 2363	218-0
Red	TL 2461	248-0
Red	T 2423	257-0
Rust	TL 2380	262-0
Red	TL 2793	278-0
Red	T 2129	282-1
Maroon	TL -	284-0
Maroon	TL -	2145-0
Red	TL -	2157-0
Yellow	TL 2016	406-1
Yellow	TL 2037	407-2
Amber	T 2451	408-5
Yellow	TL 2325	424-3
Yellow	T 2208	430-7
Yellow	TL 2465	432-2
Amber	T 2422	436-4
Green	TL 2030	506-0
Green	TL 2108	507-0
Green	TL 2047	518-0
Green	TL 2024	519-0
Green	TL 2215	534-0
Green	T 2092	545-2
Green	T 2082	546-7
Glass Green	T 3030	5110-9
Green	TL -	5121
Green	T 2111	5127-7
Green	O -	5138-0
Turquoise	TL -	5145-0
Blue	TL 2114	605-0
Blue	TL 2050	606-0
Blue	TL 2051	607-1
Blue	TL 2329	613-0
Turquoise	TL 2308	614-0
Blue	T 2069	625-5
Blue	T 2424	668-0
Blue	TL 2648/2326	693-0
Blue	T 2454	6125-7

Color	Atohaas/Aristech	Cyro
Blue	TL -	6167-0
Blue	O -	6168-0
Blue	T -	6170-9
Violet	TL 2287	702-0
Violet	T -	713-0
Weatherable Fluorescents (GPFLW)		
Red	T -	2130-2
Dark Red	T -	2135-1
Orange	T -	3105-5
Indoor-Use Fluorescents (GPF)		
Red	T -	2163-4
Orange	T -	3141-5
Green	T -	564-9
Showcase Colors - Fluorescents (GPFL)		
Red	T -	2149-4
Red/Orange	T -	2150-5
Orange	T -	3127-7
Yellow	T -	4073-8
Green	T -	5143-8
Blue	T -	6157-9
Showcase Colors - Exotic Edge		
Black	TX -	144-7
Red	TX -	2143-7
Red/Orange	TX -	2147-8
Red	TX -	2148-8
Orange	TX -	3124-9
Yellow	TX -	4071-9
Green	TX -	5141-9
Blue	TX -	6143-7
Showcase Colors - Pastel Ice		
Red	TL -	2149-4
Red/Orange	TL -	2150-5
Orange	TL -	3127-7
Yellow	TL -	4073-8
Green	TL -	5143-8
Blue	TL -	6157-9
Showcase Colors - E-color		
Magenta	T -	2167-3
Amber	T -	3146-3
Green	T -	5171-5
Blue	T -	6180-4
Violet	T -	7027-3

T: Transparent Color TL: Translucent Color TX: Exotic Edge Color O: Opaque

The ACRYLITE Color Coding System uses 4-5 digit numbers for all colors, including white and black. The first digit identifies the color group:

- 0 White and Ivory
- 2 Red
- 4 Yellow and Amber
- 6 Blue
- 8 Not Assigned
- 1 Gray and Black
- 3 Orange and Brown
- 5 Green
- 7 Violet
- 9 Not Assigned

The second, third and sometimes fourth digits are assigned to specific colors. These digits have no special significance and are not related to the code used for the first digit. They are used only to load and identify up to 999 different shades within each color group. The last digit indicates the approximate percentage range of light transmission. For example 131-2 is a Bronze transparent color with a 20% to 29% range of light transmission.

This listing of competitive color numbers does not imply that these colors are identical with each other. Listings are approximately equivalent and can be used without appreciably changing the desired effect.

SHEFFIELD MAKROLON/HYZOD SL POLYCARBONATE ON REELS 



Makrolon/Hyzod polycarbonate sheet, produced with Makrolon polycarbonate resins from Bayer Corporation, is a versatile line of high performance polycarbonate sheet products that have been utilized in major signage programs in the field and demonstrated high performance levels in the most demanding environments. Makrolon polycarbonate sheet provides high impact strength and heat resistance and easy fabrication characteristics. For added convenience and economy, Makrolon polycarbonate sheet is available as flat sheet or on reels.

Sheffield Plastics, together with Makroform, their European affiliate, ranks as the second largest producer of polycarbonate sheet in the world. Sheffield's Makrolon Sign Products are produced exclusively with Makrolon polycarbonate resin from Bayer Corporation. With the full support from Bayer Corporation and new modern production facilities, Sheffield manufactures quality sign products that are second to none. In addition, the emphasis on technology, quality, and cost competitiveness that has made Sheffield a major polycarbonate supplier to the construction, electronics, aviation, and transportation markets is a part of every shipment of Makrolon polycarbonate sheet that is produced for the sign industry.

Makrolon SL offers the impact protection of Makrolon polycarbonate sheet coupled with enhanced UV protection. It also has the design and structural advantage of thermoformability. Using advanced extrusion technology, Sheffield Plastics has created a tough product designed to be made into the toughest sign faces under the sun.

Makrolon SL polycarbonate meets stringent UL Section 48 criteria for use in electric signs. This allows the use of less costly components during installation, making it a high performance yet economical choice for channel letters of all shapes and sizes.

Makrolon is supplied on reels to provide almost any length in the widths and gauges listed. Can be cut to desired length within a day. Other widths, thicknesses, colors and types also available.

Catalog Number	Color	Width (Inches)	Thickness (Inches)	Reel Length (Feet)	Reel Weight (Lbs.)	Sq. Ft. Per Reel
SL-30R	Clear	55	.093	625	1664	2,864
SL-40R	Clear	55	.118	450	1520	2,062
SL-42R	Clear	78	.118	450	2155	2,925
SL-50R	Clear	55	.150	400	1716	1,833
SL-52R	Clear	78	.150	400	2434	2,600
SL-53R	Clear	102	.150	400	3182	3,400
SL-60R	Clear	55	.177	300	1519	1,375
SL-61R	Clear	67	.177	300	1851	1,675
SL-62R	Clear	78	.177	300	2155	1,950
SL-63R	Clear	102	.177	300	2812	2,550
S7328SL-40R	White	55	.118	450	1520	2,062
S7328SL-50R	White	55	.150	400	1716	1,833
S7328SL-51R	White	67	.150	400	2090	2,233
S7328SL-52R	White	78	.150	400	2434	2,600
S7328SL-58R	White	42	.150	400	1310	1,400
S7328SL-60R	White	55	.177	300	1519	1,375
S7328SL-61R	White	67	.177	300	1851	1,675
S7328SL-62R	White	78	.177	300	2155	1,950
S7328SL-63R	White	102	.177	300	2812	2,550

CUTTING and SAWING: Makrolon polycarbonate sheet can be cut with most common hand-held and table-mounted saws, including circular saws, routers and band saws using standard blade designs for polycarbonate. For end milling and routing, high rotating speeds or low feed rates are advisable.

BOND and CEMENTING: In solvent bonding using MDC (methylene dichloride), apply to surfaces to be bonded and hold parts under pressure until cured. Add 10% glacial acetic acid for the best joint appearance. IPS-55 two-part cement can also be used and is shown in the Sign Supplies Section under Cement for Plastics.

PAINTING and SILK SCREENING: Can be painted by silk screening or standard spray techniques using inks and paints commonly available for polycarbonate sheet.

STRIP HEATING: Strip heating is one way to achieve localized bending of Makrolon polycarbonate sheet for use in signs. Heating both sides of the bend area will help achieve optimum results. Drying is recommended unless the material is .118" or less in thickness. Brake bending can be done on gauges less than .118".

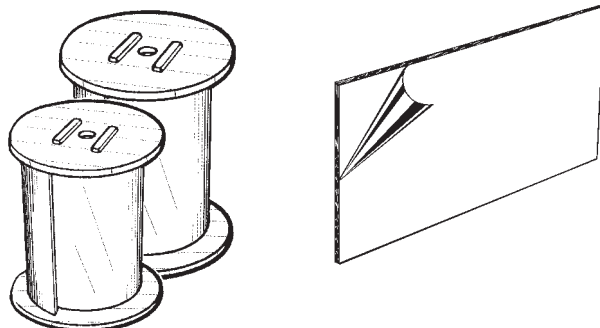
SHEARING, PUNCHING, and BLANKING: Unlike acrylic which will shatter, Makrolon polycarbonate sheet resists cracking or crazing when shearing, punching or blanking as long as the proper sharp tools are used.

THERMOFORMING: Makrolon polycarbonate sheet can be thermoformed with excellent results on standard equipment using conventional polycarbonate forming techniques. The sheet requires predrying to remove excess moisture. Drying guidelines are furnished in the following chart with other production recommendations which should be followed for optimum results.

Substrates

SHEFFIELD MAKROLON/HYZOD SL POLYCARBONATE SHEETS 

Makrolon SL flat sheet is also available as well as additional colors, Abrasion Resistant (AR) and General Purpose (GP) versions.



PREDRYING TEMP: 250 °F	
Thickness (Inches)	Drying Time
.093	4hrs.
.118	6hrs.
.150	8hrs.
.177	14hrs.
.236	24hrs.

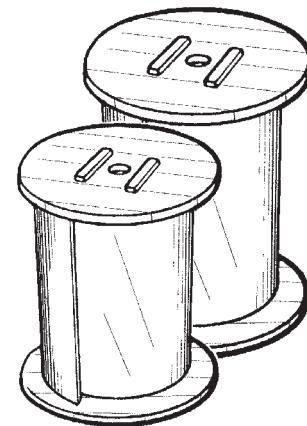
FORMING GUIDELINES	
Sheet Temperature	
Typical	340 - 380 °F
Mold Temperature	210 - 260 °F



LEXAN POLYCARBONATE ON REELS [Ⓛ]

Lexan® is supplied on reels to provide almost any length in the widths and gauges listed. Can be cut to desired length within a day. White Lexan® is supplied with one edge trimmed where as clear Lexan® has both edges trimmed. Trimmed side is smooth and even, other edge is webbed which is helpful when thermoforming.

Catalog Number	Color	Width ⁽¹⁾	Thickness (Inches)	Reel Length (Feet)	Reel Weight (Lbs.)	Sq. Ft Per Reel
SGC100-40R	Clear	51	.118	504	1,608	2,184
SGC100-50R	Clear	51	.150	400	1,733	1,733
SGC100-52R	Clear	75	.150	400	2,533	2,532
SGC100-60R	Clear	51	.177	304	1,537	1,317
SGC100-61R	Clear	63	.177	304	1,892	1,621
SGC100-62R	Clear	75	.177	304	2,246	1,925
SGC100-63R	Clear	99	.177	304	2,956	2,533
L7328SG-40R	White	52.5"	.118	504	1,608	2,184
L7328SG-58R	White	38"	.150	800 ⁽²⁾	2,371	2,533
L7328SG-50R	White	52.5"	.150	400	1,733	1,733
L7328SG-51R	White	64.5"	.150	400	1,997	2,132
L7328SG-52R	White	76.5"	.150	400	2,533	2,532
L7328SG-60R	White	52.5"	.177	304	1,537	1,317
L7328SG-61R	White	64.5"	.177	304	1,892	1,621
L7328SG-62R	White	76.5"	.177	304	2,246	1,925
L7328SG-63R	White	100.5"	.177	304	2,956	2,533



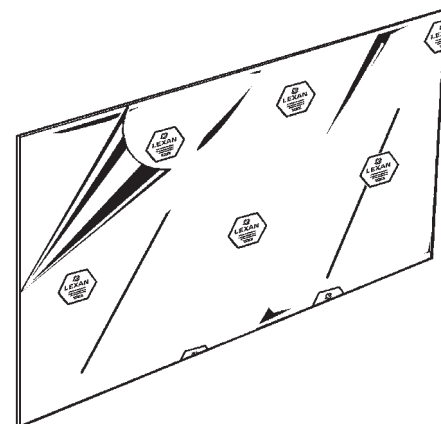
NOTE: ⁽¹⁾ Widths listed vary by up to an extra .50". ⁽²⁾ Two 38" x 400' pieces side by side per reel.

Substrates

LEXAN POLYCARBONATE SHEETS [Ⓛ]

Lexan® is a polycarbonate sign face material with an impact strength of approximately 30 times that of regular acrylic plastic. Its very high strength makes it the most used sign face material for high breakage locations or for remote locations with potential expensive maintenance. Lexan® sheets are listed and sold by actual size. A Solar Guard layer is co-extruded to colorless sheets and bonded to pigmented sheets for excellent UV protection. Sheets are film masked on both sides; white film on the Solar Guard side and blue film on the second side.

Lexan® fabricates much like acrylic sheet except for cementing and thermoforming. IPS-55 two part cement is recommended and is shown in the Sign Supplies section under Cements for Plastics. Cycle times during thermoforming are longer than for acrylic so the manufacturers fabrication data should be consulted. Lexan® colored sheets also available.



TUF-GLAS IMPACT MODIFIED ACRYLIC ON REELS



Tuf-Glas® is a continuously processed tough acrylic sheet that combines exceptional weatherability, ease of fabrication and impact strength to give it a high performance to cost factor. Tuf-Glas® provides 5 to 6 times the impact strength of standard acrylic sheet and has the highest stiffness of any impact sign material including polycarbonate. It can be cut, drilled and routed with standard equipment and procedures recommended for conventional acrylic sheet.

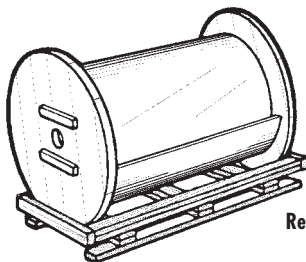
Catalog Number	Color	Width	Thickness (Inches)	Reel Length (Ft.)	Reel Weight (Lbs.)	Sq. Ft Per Reel
TUF-620-60R	White	52"	.177	535	2,493	2,318
TUF-620-62R	White	76"	.177	360	2,452	2,280
TUF-620-63R	White	100"	.177	330	2,957	2,750

CUTTING: Tuf-Glas® can be cut with standard sawing equipment. Saw blades should have a 0 - 5 degree positive rake angle. There should be from 4 - 8 teeth per inch depending on sheet thickness. Saws should run at speeds of 8,000 to 12,000 linear feet per minute. Band saw blades should have 10 - 14 teeth per inch. Blade speeds should be between 4,000 and 5,000 feet per minute.

CEMENTING: Conventional solvent cements and polymerizable cements will readily join Tuf-Glas®. Polymerizable cements yield higher joint strengths than solvents.

PAINTING: Tuf-Glas® can be easily painted and silk-screened with standard sign paints for acrylic sheet. Spraylat and Akzo Nobel spray and screen paints have been thoroughly evaluated and field-tested for use on Tuf-Glas®.

THERMOFORMING: Tuf-Glas® forms very easily on virtually all thermoforming equipment. Forming temperatures range from 275° - 350°F, with optimum sheet temperature at a uniform 325°F. Part removal temperature should be no greater than 190°F.

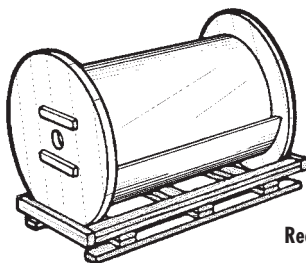


Reel on shipping pallet

ACRYSTEEL I-GP IMPACT MODIFIED ACRYLIC ON REELS



Aristech Acrysteel® I-GP is continuous cast thermoplastic acrylic sheet designed to give a "preferred balance" of physical properties and performance. Acrysteel® I-GP has been engineered to have sufficient impact strength to reduce breakage during fabrication, during field installation and has 5 to 6 times greater impact strength than standard acrylic. Acrysteel® has excellent resistance to outdoor weathering, is solvent cementable and easily fabricated.



Reel on shipping pallet

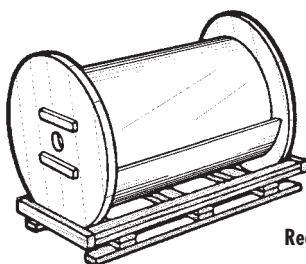
FABRICATION: Acrysteel® I-GP can be fabricated with the same techniques used for regular acrylic sheet including gang cutting, hot or cold bending, flame polishing and can also be sheared and hole punched. Acrysteel® can be solvent cemented using the same cements used on regular acrylic.

PAINTING: Acrysteel® I-GP can be painted with regular acrylic sign paints. Both Spraylat and Akzo Nobel paint products are approved for use on Acrysteel® I-GP.

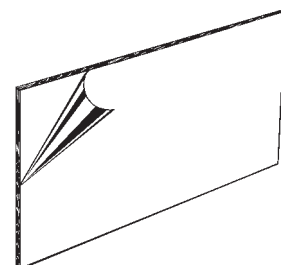
DURAPLEX IMPACT MODIFIED & HIGH IMPACT ACRYLIC SHEETS & REELS

PLASKOLITE, INC.

Plaskolite Duraplex SG05 is a continuously processed tough acrylic sheet that combines exceptional weatherability, ease of fabrication and impact strength to give it a high performance to cost factor. Plaskolite Duraplex SG05 provides 5 to 6 times the impact strength of standard acrylic sheet and has the highest stiffness of any impact sign material including polycarbonate. It can be cut, drilled and routed with standard equipment and procedures recommended for conventional acrylic sheet. Duraplex SG10 high impact acrylic provides 10 times the impact strength of standard acrylic sheet.



Reel on shipping pallet



Substrates

SIGN-FOAM



Sign-Foam® is an expanded cellular polyurethane that can be used to create signage simulating metal, wood, concrete, tile, rock, etc. Sign-Foam's versatility allows clients on a tight budget to afford distinctive and superior signage. Sign-Foam® will not corrode and is impervious to decay and water. 15lb. and 18lb. densities are used primarily for structural and free standing applications. 10lb. density is appropriate for mounted graphics. Other sizes and densities also available.

Catalog Number	Dimensions		Thickness (Inches)	Density Lb/Ft ³
	Width	Length		
SF-10-918	48"	96"	.50	10
SF-10-1118	48"	96"	.75	10
SF-10-1318	48"	96"	1.00	10
SF-10-1518	48"	96"	1.50	10
SF-10-1718	48"	96"	2.00	10
SF-10-1918	48"	96"	3.00	10
SF-15-918	48"	96"	.50	15
SF-15-1118	48"	96"	.75	15
SF-15-1318	48"	96"	1.00	15
SF-15-1518	48"	96"	1.50	15
SF-15-1718	48"	96"	2.00	15
SF-15-1918	48"	96"	3.00	15
SF-18-1118	48"	96"	.75	18
SF-18-1318	48"	96"	1.00	18
SF-18-1518	48"	96"	1.50	18
SF-18-1718	48"	96"	2.00	18
SF-18-1918	48"	96"	3.00	18

CUTTING: Sign-Foam® may be easily cut with conventional saws, routers, shapers, sanders and files. Like wood, it will retain fine detail.

BONDING: Use a heavy-bodied elastomeric epoxy such as IPS #56 cement to bond Sign-Foam® to itself or to metal. Use an exterior grade waterproof structural adhesive to bond Sign-Foam® to substructures using the same procedures as for plywood. Use a waterproof construction adhesive to bond Sign-Foam® letters or graphics to wood, metal or stucco backgrounds.

FASTENING: 15lb. and 18lb. Sign-Foam® will accept drywall screws driven slightly below the foam surface. Nails are not recommended. Other fasteners commonly used with wood can also be used.

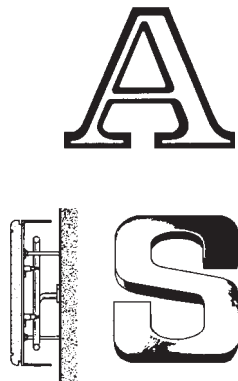
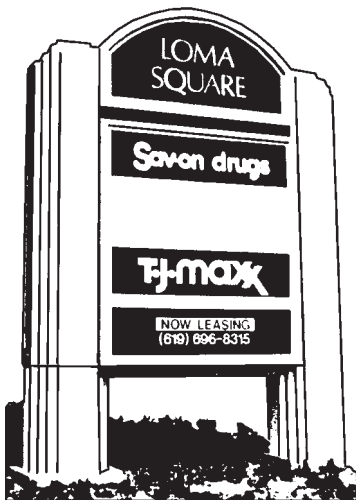
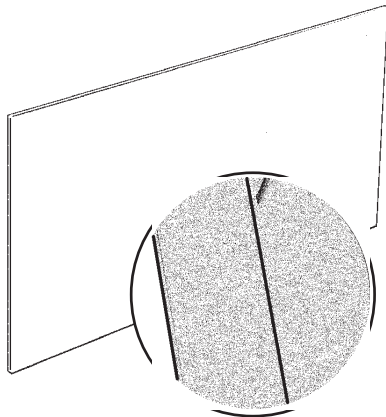
SANDING: Sign-Foam® may be sanded easily with conventional power sanders or hand sanded. Surfaces and edges should be sanded with 150 - 120 grit sandpaper before priming and finishing. When textured finishes, such as Texcote, are applied, 40 grit sandpaper should be used.

PRIMING: Automotive epoxy or polyurethane filler/primer can be used before enamel or multipurpose wood primers are applied. Prime-All primer by Ronan and Jay Cooke's All Purpose Sign Primer work best. Dimensional graphics can be primed with a polyester sanding resin to reduce sanding time.

FINISHING: Polyurethane enamels are the best exterior finishes to apply, providing superior resistance to expansion and cracking and have excellent UV resistance. Sign-Foam® has excellent color retention and are easily sprayed. Economical automotive acrylic enamels are adequate for smaller Sign-Foam® projects and will make a good quality finish. In addition, quality heavy-bodied acrylic latex paints are the most economical finish for Sign-Foam® and are simple to apply by hand or spray.

SPECIAL EFFECTS: Sign-Foam's® easy shaping and finishing allows you to simulate metal graphics that rival actual metal. 18lb. Sign-Foam® can be sandblasted like wood. Linear strokes with a wire brush simulate a rough sawn wood texture. Sign-Foam® carves like soft stone yet finishes like wood or metal and can even reproduce a tile or masonry look with grout lines and stone texture.

Substrates



SINTRA (U)



Sintra® is an expanded, high density PVC plastic sheet material ideal for sign and display work. It is resistant to water and most chemicals. Due to its expanded construction it is lightweight and fire retardant with solid paintable surfaces. When labor and finishing costs are considered, Sintra® is more economical than plywood or Masonite. Sintra® is UL fire rated 94-V-0. Custom cutting is available in our modern cutting facility. Please call for quote.

Catalog Number	Color	Dimensions			Weight/Sheet (Lbs.)
		Width	Length	Thickness	
S-02-218	White	48"	96"	1mm (.040")	5.6
S-02-318	White	48"	96"	2mm (.080")	9.2
S-02-344	White	60"	120"	2mm (.080")	14.4
S-02-418	White	48"	96"	3mm (.118")	13.7
S-02-420	White	48"	120"	3mm (.118")	17.2
S-02-444	White	60"	120"	3mm (.118")	21.5
S-02-459	White	79.9"	120"	3mm (.118")	28.6
S-02-618	White	48"	96"	4mm (.157")	18.4
S-02-6.518	White	48"	96"	5mm (.197")	23.1
S-02-718	White	48"	96"	6mm (.236")	27.5
S-02-720	White	48"	120"	6mm (.236")	34.3
S-02-744	White	60"	120"	6mm (.236")	42.9
S-02-759	White	79.9"	120"	6mm (.236")	57.1
S-02-818	White	48"	96"	10mm (.375")	33.0
S-02-844	White	60"	120"	10mm (.375")	55.0
S-02-918	White	48"	96"	13mm (.500")	42.9
S-02-944	White	60"	120"	13mm (.500")	71.5
S-02-1118	White	48"	96"	19mm (.750")	62.4
S-01-318	Black	48"	96"	2mm (.080")	9.2
S-01-418	Black	48"	96"	3mm (.118")	13.7
S-01-444	Black	60"	120"	3mm (.118")	21.5
S-01-6.518	Black	48"	96"	5mm (.197")	23.1
S-01-718	Black	48"	96"	6mm (.236")	27.5
S-01-744	Black	60"	120"	6mm (.236")	42.9
S-01-918	Black	48"	96"	13mm (.500")	42.9
S-06-418	Green	48"	96"	3mm (.118")	13.7
S-06-718	Green	48"	96"	6mm (.236")	27.5
S-07-418	Blue	48"	96"	3mm (.118")	13.7
S-07-718	Blue	48"	96"	6mm (.236")	27.5
S-10-418	Gray	48"	96"	3mm (.118")	13.7
S-10-718	Gray	48"	96"	6mm (.236")	27.5
S-14-418	Teal	48"	96"	3mm (.118")	13.7
S-16-418	Beige	48"	96"	3mm (.118")	13.7
S-16-718	Beige	48"	96"	6mm (.236")	27.5
S-19-418	Purple	48"	96"	3mm (.118")	13.7
S-20-418	Light Gray	48"	96"	3mm (.118")	13.7
S-20-718	Light Gray	48"	96"	6mm (.236")	27.5
S-23-418	Dark Red	48"	96"	3mm (.118")	13.7
S-23-718	Dark Red	48"	96"	6mm (.236")	27.5
S-25-418	Bright Yellow	48"	96"	3mm (.118")	13.7
S-25-718	Bright Yellow	48"	96"	6mm (.236")	27.5
S-27-418	Dark Blue	48"	96"	3mm (.118")	13.7
S-27-718	Dark Blue	48"	96"	6mm (.236")	27.5

CUTTING: Sintra® up to 3mm thick can be cut with a knife. Guillotine cutting is not recommended as it will leave a compressed edge. Flat Sintra® can be die cut with a steel rule die. Smooth edges can be achieved by slight warming or with a sander, taking care not to over heat. Sintra® can be cut with plastic cutting blades at feed speeds of 100 ft/min. Circular and jig saws may also be used.

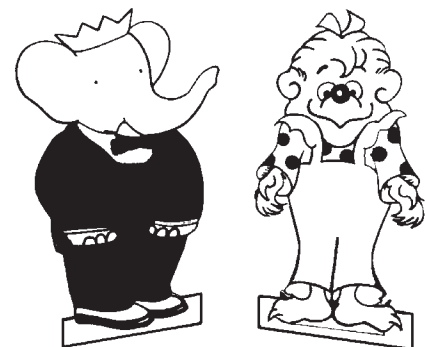
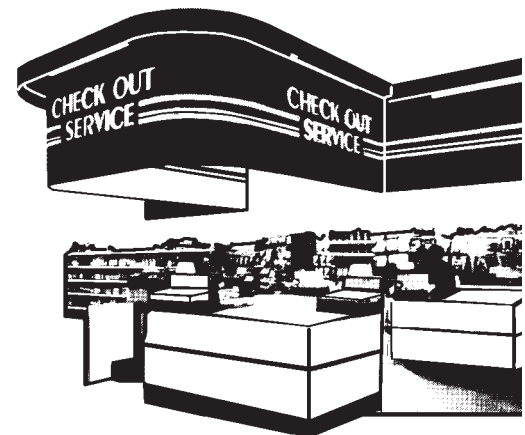
FASTENING: Sintra® may be nailed within 1/4" from its edge without splitting. Screws or blind rivets can also be used. Allow for temperature changes since it expands 0.05 mil/ft. per °F.

PAINTING: Sintra® can be painted with vinyl paints, acrylic lacquers or 2-part polyurethanes. Paint can be applied by brush, spray gun, roller or dipping. Finishes should not be forced dried in an oven. Primers are not required if surface is dry and clean. Silk screening has excellent results. Most printing inks suitable for PVC may also be used.

CEMENTING: Sintra® may be bonded to itself with IPS-1007, 1802 or 2007 found in the Sign Supplies section under Cements for Plastics.

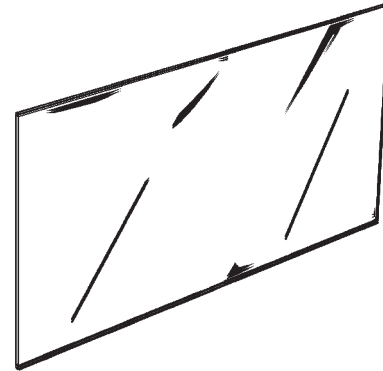
FORMING: Sintra® can be thermo-formed, vacuum-formed or heat bent faster than most conventional plastics depending on thickness and shape. Please inquire for fabrication data.

Substrates



SINTRA TOP

Sintra[®]top economically provides the gloss of acrylic at one-half the weight. Its smooth, durable surface is ideal for signage, displays, POP, vinyl graphics and other applications that require a high-gloss effect. It offers the same fabrication ease as original Sintra[®] material. In addition to its gloss finish, Sintra[®]top material offers a higher degree of UV resistance and greater moisture resistance than many other types of alternative substrates. Can be printed, painted, lacquered or surface coated and laminated.



Catalog Number	Color	Dimensions		Thickness	Weight/Sheet (Lbs.)
		Width	Length		
S-T02-418	White	48"	96"	3mm (.118")	15.1
S-T02-420	White	48"	120"	3mm (.118")	19
S-T02-6.518	White	48"	96"	5mm (.147")	25
S-T01-418	Black	48"	96"	3mm (.118")	15.1
S-T07-418	Blue	48"	96"	3mm (.118")	15.1
S-T23-418	Dark Red	48"	96"	3mm (.118")	15.1
S-T25-418	Yellow	48"	96"	3mm (.118")	15.1



The Most Complete Supplier in the West!

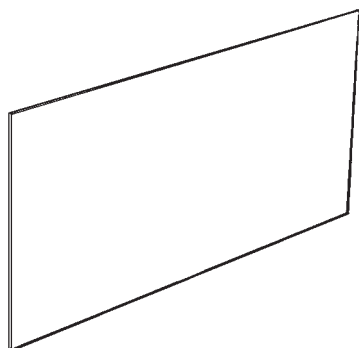
Sign, Lighting & Electrical Supplies • Computer Sign Making Equipment • Display & Exhibit Supplies
Creative Boards & Substrates • Digital Imaging & Laminating Supplies

LUMASITE SHATTER-PROOF PLASTIC SHEETS

LUMAsite®

LUMAsite® plastic sheets are cast from pure acrylic monomer and reinforced with an almost invisible web of glass fibers. This combines the fade resistance and weatherability of acrylic with the high impact properties of fiberglass. LUMAsite® has glossy surfaces on both sides, except for dark brown which is satin-matte on one side. LUMAsite® sheets cost substantially less than polycarbonate sheets and due to LUMAsite's superior stiffness, a 1/8" thick sheet can often take the place of a 3/16" acrylic or polycarbonate sheet. LUMAsite® is combustible so fire precautions similar to those for wood-based sheet products should be used. Other sizes and colors also available.

Catalog Number	Color	Dimensions		Thickness (Inches)
		Width	Length	
A1020C-418	White	48"	96"	.125
A1020C-420	White	48"	120"	.125
A1020C-440	White	60"	96"	.125
A1020C-444	White	60"	120"	.125



BONDING: Bonding can be accomplished using solvent-type cements (with the exception of "Crystal" varieties of LUMAsite®). Thin slow-setting cements like IPS-4 are recommended. Butt-joints between panels are not recommended due to the irregular edges caused by the glass fibers.

FASTENING: LUMAsite® can be fastened to sheet metal using pressure-sensitive tape such as 3M VHB. LUMAsite® can also be fastened using rivets, screws or bolts. Holes should be drilled slightly oversize and no less than 1/2" from the edge of the sheet.

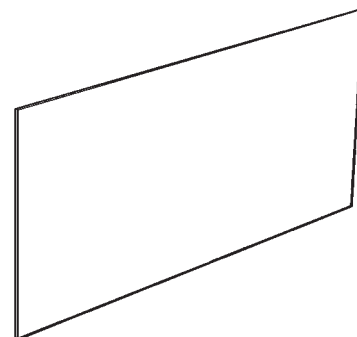
PAINTING: Most paints or screening inks for use on ordinary cast acrylic may be used on LUMAsite®.

CUTTING: LUMAsite® may be sheared using foot or power sheet metal shears. For cutting 1/8" thickness, a 12 gauge shear is recommended. A circular saw with a medium to coarse carbide blade 14 teeth per inch can also be used.

STYRENE SHEETS

Styrene sheets are made of high impact styrene with smooth surfaces. Quantity orders can be cut to custom sizes. Styrene sign blanks in small sizes can be found in the Sign Supplies section under Sign Blanks. Other colors, sizes and thicknesses also available.

Catalog Number	Color	Dimensions		Thickness (Inches)
		Width	Length	
STY-009	White	48"	96"	.020
STY-013	White	48"	96"	.030
STY-018	White	48"	96"	.040
STY-218	White	48"	96"	.060
STY-418	White	48"	96"	.125



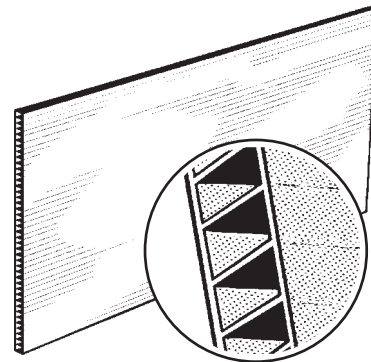
CORRUGATED PLASTIC SHEETS

A twin-walled, corrugated polypropylene sheet plastic substrate that is ideal for many sign and display applications. It is weatherproof, durable and lightweight which makes it suitable for both indoor and outdoor signage such as real estate signs, political signs, bus and truck signs. It is combustible but can be easily extinguished with conventional fire extinguishers. Sheets can be fabricated using normal techniques associated with corrugated cardboard. It is UV enhanced and should give 3 years outdoor service before breakdown occurs.

INT-02-618US denotes an ultra-smooth version which has a thicker face to reduce the "ribbed" appearance and provides a smoother face ideal for printing or producing a more finished look.

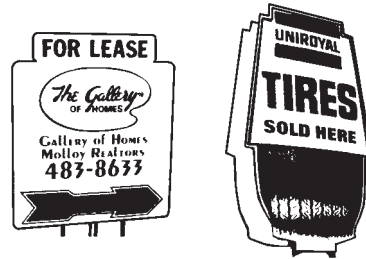
Sheets are rigid and can be best screen-printed on flat bed presses. Because it is non-absorbent, use a minimum film thickness to expedite drying. Forced drying temperatures should not exceed 100°F. Squeegee pressure should be normal and the squeegee should be slightly rounded to help compensate for fluted surfaces. Ink viscosity should be slightly higher than normal to prevent spreading in the flutes.

Custom cutting is available in our modern cutting facility. Please call for quote. Other sizes and thicknesses also available.



Substrates

Catalog Number	Color	Dimensions		Thickness
		Across Corrugation	Parallel to Corrugation	
INT-02-418	White	48"	96"	3mm (.118")
INT-02-601	White	18"	24"	4mm (.157")
INT-02-602	White	24"	18"	4mm (.157")
INT-02-604	White	24"	36"	4mm (.157")
INT-02-618	White	48"	96"	4mm (.157")
INT-02-618US	White, Ultra-Smooth	48"	96"	4mm (.157")
INT-02-718	White	48"	96"	6mm (.236")
INT-02-8.518	White	48"	96"	10mm (.394")
INT-01-618	Black	48"	96"	4mm (.157")
INT-00-618	Natural	48"	96"	4mm (.157")
INT-03-618	Red	48"	96"	4mm (.157")
INT-07-618	Blue	48"	96"	4mm (.157")
INT-06-618	Green	48"	96"	4mm (.157")
INT-05-618	Yellow	48"	96"	4mm (.157")
INT-05-718	Yellow	48"	96"	6mm (.236")
INT-04-618	Orange	48"	96"	4mm (.157")
INT-08-618	Brown	48"	96"	4mm (.157")
INT-10-618	Gray	48"	96"	4mm (.157")
INT-12-618	Ivory	48"	96"	4mm (.157")

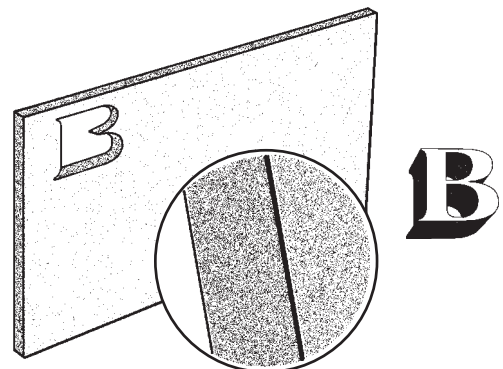


EPSILON FOAM SHEETS • BEAD BOARD

EPSILON

Epsilon foam is made from an expanded polystyrene closed-cell material. It can be used for dimensional cut-outs for signs and exhibits. These sheets are also used as an economical sacrificial layer between work and the router or saw table.

Catalog Number	Color	Dimensions		Thickness (Inches)	Density (Lbs./Cubic Ft.)
		Width	Length		
EPS-918-1	White	48"	96"	.5	1
EPS-1318-1	White	48"	96"	1.0	1
EPS-1718-1	White	48"	96"	2.0	1
EPS-1518-2	White	48"	96"	1.5	2
EPS-1718-2	White	48"	96"	2.0	2



FOME-COR

Fome-Cor® is composed of a rigid and lightweight extruded polystyrene foam core laminated on both sides with satin-smooth, 12 pt. clay-coated paper stock. Fome-Cor® is ideal for picture framing, displays, photo backups, exhibits, models and a number of other uses. Custom cutting is available in our modern cutting facility. Please call for quote.



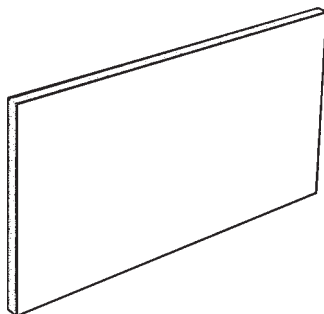
Catalog Number	Surface Color	Core Color	Dimensions		Thickness (Inches)	Put Up
			Width	Length		
F245C-404CTN	White	White	32"	40"	.125	25
F245C-406CTN	White	White	40"	60"	.125	25
F245C-418BU	White	White	48"	96"	.125	Bulk
F245C-418CTN	White	White	48"	96"	.125	25
F327C-601CTN	White	White	24"	36"	.187	25
F327C-602CTN	White	White	30"	42"	.187	25
F327C-603BU	White	White	30"	40"	.187	Bulk
F327C-603CTN	White	White	30"	40"	.187	25
F327C-604CTN	White	White	32"	40"	.187	25
F327C-606BU	White	White	40"	60"	.187	Bulk
F327C-606CTN	White	White	40"	60"	.187	25
F327C-614BU	White	White	48"	72"	.187	Bulk
F327C-614CTN	White	White	48"	72"	.187	25
F327C-618BU	White	White	48"	96"	.187	Bulk
F327C-618CTN	White	White	48"	96"	.187	25
F327C-620BU	White	White	48"	120"	.187	Bulk
F327C-620CTN	White	White	48"	120"	.187	25
F327C-54X77	White	White	54"	77"	.187	Bulk
F327C-640BU	White	White	60"	96"	.187	Bulk
F327C-640CTN	White	White	60"	96"	.187	25
F327BB-28X40	Black	Black	28" ⁽¹⁾	40" ⁽¹⁾	.187	Bulk
F327BB604BU	Black	Black	32"	40"	.187	Bulk
F327BB604CTN	Black	Black	32"	40"	.187	25
F327BB618BU	Black	Black	48"	96"	.187	Bulk
F327BB618CTN	Black	Black	48"	96"	.187	25
F327BB-54X77	Black	Black	54"	77"	.187	Bulk
F-ST-818	White	White	48"	96"	.375	12

NOTE: ⁽¹⁾ Actual dimensions are 27.875" x 39.875".

JETMOUNT GRAPHIC ARTS BOARD

JetMount™ is rigid while lightweight. It consists of a thicker extruded polystyrene foam core laminated between 12pt. clay-coated paper liners. Foam is enhanced to resist dents and provide exceptional durability. JetMount™ was engineered a quarter inch thick resulting in a more rigid board. Available in up to 5' by 8' panels, JetMount™ is the ideal mounting substrate for digital imaging.

Catalog Number	Color	Dimensions		Thickness (Inches)	Put Up
		Width	Length		
F435C-718CTN	White	48"	96"	.250	20
F435C-740CTN	White	60"	96"	.250	20
F435BB718CTN	Black	48"	96"	.250	20
F435BB740CTN	Black	60"	96"	.250	20



FOME-COR

Fome-Cor® is composed of a rigid and lightweight extruded polystyrene foam core laminated on both sides with satin-smooth, 12 pt. clay-coated paper stock. Fome-Cor® is ideal for picture framing, displays, photo backups, exhibits, models and a number of other uses. Custom cutting is available in our modern cutting facility. Please call for quote.

CUTTING: Fome-Cor® can be cut effortlessly with a mat knife, razor, slitter, fine toothed band saw or table saw. Square edges and bevels up to 90° can be cut with standard sharp-edged mat cutters.

DIE CUTTING: Fome-Cor® cuts cleanly to intricate shapes. When die cut with a standard rule the edges compress and stay closed giving a "pillowed" effect.

EMBOSSING: Fome-Cor's absence of "memory" allows sharp and permanent designs by embossing or de-bossing. Embossing is accomplished on standard presses without heat, with only moderate pressure.

SCREEN PRINTING: The surfaces of Fome-Cor® are outstanding for screening with sharp detail, great color coverage and fast drying.

LAMINATING: Foil, printed paper, poster, photo paper and fabrics may all be laminated to Fome-Cor® using standard mounting equipment and bonding agents.

MOUNTING: Use standard dry mounting equipment and adhesives that operate in the range of 180 - 225 °F. 30 - 60 seconds in the press is sufficient for most applications. Fome-Cor® accepts either hot or cold vacuum mounting. It is also suitable for cold mounting using standard adhesives and low to moderate pressure rollers.

PRINTING AND PAINTING: The white clay-coated surface of Fome-Cor® is a top quality printing surface. It may also be painted with latex, oil based or acrylic paints.

JetMount. INTERNATIONAL PAPER

MOUNTING AND LAMINATING: While JetMount™ is designed for indoor applications, most paper, foil or plastic sheet film can be mounted to its smooth surface. The special properties of JetMount™ are perfect for almost any mounting project, including lithos, posters, art and photographs. Virtually any mounting fabrication technique may be used, including dry mounting, wet pressure-sensitive adhesives and automatic litho mounting.

CUTTING: Smooth, crisp edges can be achieved by cutting the high-density foam with a standard mat and glass cutter. To make numerous sizes and intricate shapes with ease, use a utility knife or Cutawl.

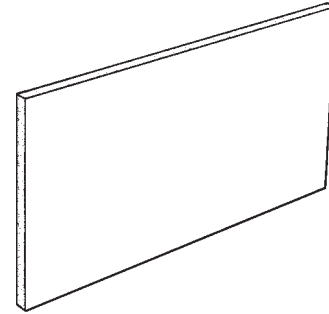
Substrates

ACID-FREE FOME-COR

Acid-Free Fome-Cor® is ideal for use in conservation quality framing. Paper surface of the board is buffered to maintain a non-acidic stability. Designed to be used in direct contact with artwork. Meets the highest conservation standards for preserving works of art.



Catalog Number	Surface Color	Core Color	Dimensions		Thickness (Inches)	Put Up
			Width	Length		
F-AF-604CTN	White	White	32"	40"	.187	25
F-AF-606CTN	White	White	40"	60"	.187	25
F-AF-48X80	White	White	48"	80"	.187	Bulk
F-AF-618BU	White	White	48"	96"	.187	Bulk



SELF-ADHESIVE & HEAT-ACTIVATED FOME-COR

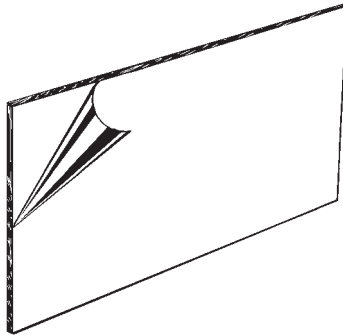
Both Self-Adhesive and Heat-Activated Fome-Cor® are extruded polystyrene bonded between various high-quality papers. Available in a wide variety of sizes and thicknesses for mounting just about anything.

Catalog Number	Description	Dimensions		Thickness (Inches)	Put Up
		Width	Length		
F-PRO-601CTN	Self-Adhesive, White	24	36	.187	25
F-PRO-614CTN	Self-Adhesive, White	48	72	.187	25
F-HA-606CTN	Heat-Activated, White	40	60	.187	25
F-HA-618CTN	Heat-Activated, White	48	96	.187	25

To use Self-Adhesive Fome-Cor®: peel back the release paper as positioning a photograph or a print on the sticky surface.

To use Heat-Activated Fome-Cor®: place the piece to be mounted on the heat-activated adhesive side of the board, then place it in a heated mechanical or vacuum dry mount press with the release liner. After it cools, the board can be trimmed. Heat-Activated Fome-Cor® has also been used with heated roller laminators to reduce mounting and process times.

Substrates

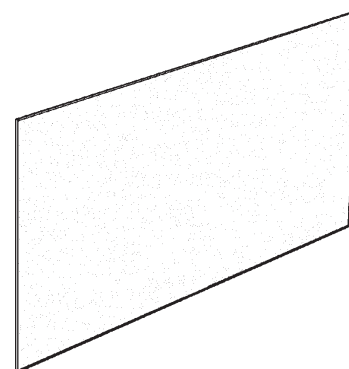


VALUBOARD

ValuBoard was designed and developed by Fome-Core as an intermediate substrate for the point-of-purchase (POP) display market. Its economical natural kraft liners are similar to those used in corrugated boards so costs are comparable. However, the smooth, foam, core of ValuBoard provides a superior mounting surface and graphic presentation. In addition, its foam core permits the user to die cut displays and achieve an attractive pillowed edge that simply can not be achieved with corrugated products. Virtually any type of paper, foil or plastic sheet film can be mounted on ValuBoard if the proper mounting techniques and adhesives are used. Adhesives should be solvent free and compatible with the print to be mounted. Plastics, coated stock and ink jet receptive materials may not be compatible with all adhesives.



Catalog Number	Color	Width	Length	Thickness (Inches)
VB-618	Natural Kraft	48"	96"	.187



GATORFOAM



Gatorfoam® surfaced panels consist of a, rigid, polystyrene foam core faced on both sides with smooth resin impregnated, moisture resistant fiber veneers which are excellent for painting, screening, laminating and photo mounting. Although weather resistant, proper support must be added for outdoor use since panels have a tendency to bow towards the sun. Black surfaced Gatorfoam® has a black foam core and is not recommended for exterior use. Gatorfoam's high strength-to-weight ratio makes it ideal for exhibits, displays and signage construction.

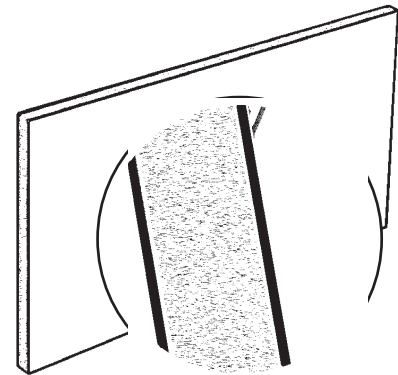
Custom sizes also available from our modern cutting facility. Please call for quote.

Catalog Number	Surface Color	Core Color	Dimensions		Thickness (Inches)	Put Up
			Width	Length		
IPC-618-W	White	White	48"	96"	.187	15
IPC-640-W	White	White	60"	96"	.187	15
IPC-644-W	White	White	60"	120"	.187	10
IPC-918-W	White	White	48"	96"	.50	12
IPC-940-W	White	White	60"	96"	.50	12
IPC-944-W	White	White	60"	120"	.50	8
IPC-1118-W	White	White	48"	96"	.75	8
IPC-1318-W	White	White	48"	96"	1.00	6
IPC-1518-W	White	White	48"	96"	1.50	4
IPC-1718-W	White	White	48"	96"	2.00	3
IPC-618-01	Black	Black	48"	96"	.187	15
IPC-640-01	Black	Black	60"	96"	.187	15
IPC-644-01	Black	White	60"	120"	.187	10
IPC-918-01	Black	Black	48"	96"	.50	12
IPC-940-01	Black	Black	60"	96"	.50	12
IPC-944-01	Black	White	60"	120"	.50	8
IPC-1118-01	Black	Black	48"	96"	.75	8
IPC-1318-01	Black	Black	48"	96"	1.00	6
IPC-1518-01	Black	Black	48"	96"	1.50	4
IPC-618-N	Natural	White	48"	96"	.187	15
IPC-640-N	Natural	White	60"	96"	.187	15
IPC-644-N	Natural	White	60"	120"	.187	10
IPC-918-N	Natural	White	48"	96"	.50	12
IPC-940-N	Natural	White	60"	96"	.50	12
IPC-944-N	Natural	White	60"	120"	.50	8
IPC-1118-N	Natural	White	48"	96"	.75	8
IPC-1318-N	Natural	White	48"	96"	1.00	6
IPC-1518-N	Natural	White	48"	96"	1.50	4

CUTTING: Gatorfoam® may be cut with a standard table or band saw using thin, fine toothed blades. Irregular cuts can be made by routers using a multi-fluted bit. A K11 Cutawl tool is also suitable. Die or guillotine cutting is not recommended.

GLUING: Gatorfoam® can be glued with any good water based contact cement. Edging can be glued-on using the heat activated Edgemate system shown in the Sign Supplies section.

PAINTING: Gatorfoam's surface needs no special preparation other than to be clean and oil free. Minor blemishes can be sanded out using 180 grit silicone carbide dry paper. Gatorfoam® accepts acrylic, vinyl, enamel or lacquer paints. Oil or solvent-based paints should not make contact with the polystyrene core as it will cause deterioration. For best results, surfaces to be screen printed should be finished with a clear sealer.

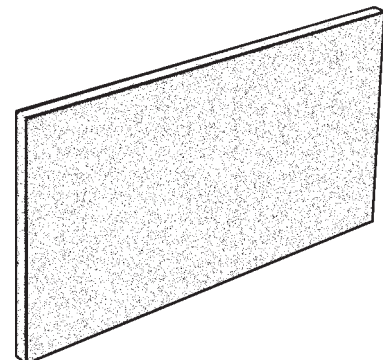


Substrates

GATORLITE

GatorLite is a lightweight structural panel of rigid polystyrene foam core laminated on both sides by moisture resistant man-made wood fiber veneer. The face veneer is less refined than that of Gatorfoam. The face laminates have been specially developed to provide an excellent surface for digital imaging and photo mounting.

Catalog Number	Surface Color	Core Color	Dimensions		Thickness (Inches)	Put Up
			Width	Length		
IPC-640-NL	Natural	White	60"	96"	.187	15
IPC-940-NL	Natural	White	60"	96"	.50	12
IPC-640-OIL	Black	Black	60"	96"	.187	15
IPC-940-OIL	Black	Black	60"	96"	.50	12



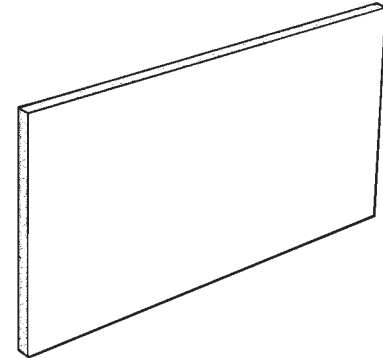
FOAM BLANKS



Dow Styrofoam brand "Square Edge" is a light blue extruded polystyrene sheet. Dow "Square Edge" has silk-like surfaces that can be painted or printed on with water based paints or non-solvent inks.

Gatorblanks® are first quality Gatorfoam® cores with no rigid surface applied.

Both brands are ideal for light duty applications and can be used outdoors when UV protected. Most water based contact cements can be used.



Catalog Number	Material Color	Dimensions		Thickness (Inches)	Put Up
		Width	Length		
DOW-SE-1318	Light Blue	48"	96"	1.00	Bulk
DOW-SE-1718	Light Blue	48"	96"	2.00	Bulk
IPC-GB-1318	White	48"	96"	1.00	Bulk
IPC-GB-1718	White	48"	96"	2.00	Bulk

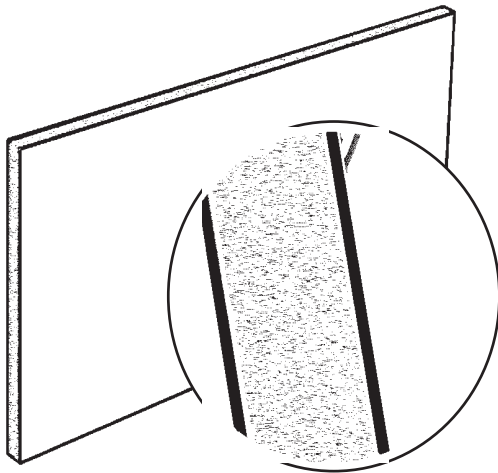
GATORPLAST



Gatorplast™ consists of a lightweight, extruded foam core laminated on both sides with a 15 mil, high-impact matte polystyrene cap sheet. It is ideal for displays, photo mounting and sign making. It accepts both cut-to-shape lettering and vinyl lettering and can be used indoors and outdoors. It is recommended that the foam be covered with channels or painted with a UV barrier coating. Cap sheet should also be protected with a UV barrier for maximum outdoor life.

Substrates

Catalog Number	Surface Color	Core Color	Dimensions		Thickness (Inches)	Put Up
			Width	Length		
IPC-618-GP	White	White	48"	96"	.187	15
IPC-918-GP	White	White	48"	96"	.50	12
IPC-1118-GP	White	White	48"	96"	.75	8
IPC-618-GP01	Black	Black	48"	96"	.187	15
IPC-918-GP01	Black	Black	48"	96"	.50	12



CUTTING: Can be cut with standard table saws. A thin kerfed blade will produce optimal cuts. Detailed shapes and contours can be created by using routers.

DIE CUTTING: 3/16" and 1/2" Gatorplast™ can be die cut using a side bevel and serrated-edge steel rules. It is also possible to die cut 3/16" Gatorplast™ with a standard rule. Thicker Gatorplast™ is not commonly die cut. Can also be guillotine cut.

PAINTING: Can be painted with a variety of paints without special preparation. Surface should be clean and free of dust. Latex or water based enamels can be used with little concern. A small area should be tested. Solvent based paints such as acrylics, some enamels and lacquers are often used. Prevent the foam from coming into contact with solvent based paints. Air drying is recommended.

SCREEN PRINTING: Gatorplast™ has been printed with solvent based, water based and UV-curable inks. Ink manufacturers can make detailed recommendations.

ADHESIVES: Typical adhesives successfully used include epoxies and 3M's Super 77 Spray Adhesive which can be found in the Sign Supplies section under Miscellaneous Cements & Sealants.

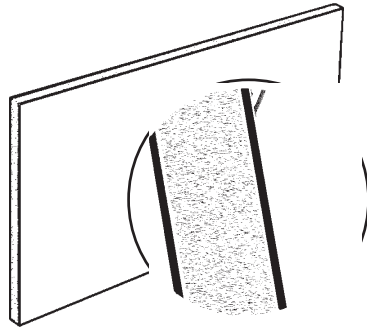
MOUNTING: The pressure sensitive film selection is critical to the proper mounting of photographs. Films manufacturers can make detailed recommendations. Dry mounting is not recommended.



FOAM-X

Foam-X® board is composed of a polystyrene foam core laminated on both sides with paper stock. It offers many design possibilities for picture or photo framing and mounting, die cutting and painting. Its "memory" characteristic resists dents and retains original dimensions when die cut. It cuts cleanly and evenly resulting in sharp, crisp edges. Unlike other foam boards, Foam-X's edges stay open and apart when cut. The Foam-X® surface finish provides excellent paint and ink adhesion. Custom cutting is available in our modern cutting facility. Please call for quote.

Catalog Number	Surface Color	Core Color	Dimensions		Thickness (Inches)	Put Up
			Width	Length		
FOM-604CTN	White	White	32"	40"	.187	45
FOM-606BU	White	White	40"	60"	.187	Bulk
FOM-606CTN	White	White	40"	60"	.187	25
FOM-618BU	White	White	48"	96"	.187	Bulk
FOM-618CTN	White	White	48"	96"	.187	25
FOM-620BU	White	White	48"	120"	.187	Bulk
FOM-803BU	White	White	27.75"	39.75"	.375	Bulk
FOM-804BU	White	White	48"	32"	.375	Bulk
FOM-918BU	White	White	48"	96"	.500	Bulk
FOM-918CTN	White	White	48"	96"	.500	10
FOM-61801CTN	Black	Black	48"	96"	.187	25
FOM-91801CTN	Black	Black	48"	96"	.500	10



CUTTING: Foam-X® can be cut effortlessly with mat knives, razors, slitters, fine toothed band saws and table saws. Square edges and bevels up to 90° can be cut with standard sharp-edged mat cutters.

DIE CUTTING: Foam-X® cuts cleanly to intricate shapes. When die cut with a standard rule, the edges spring back open.

SCREEN PRINTING: The surfaces of Foam-X® are outstanding for screening. Sharp detail, great color coverage and fast drying.

LAMINATING: Foil, printed paper, poster, photo paper and fabrics may all be laminated to Foam-X® using standard mounting equipment and standard bonding agents.

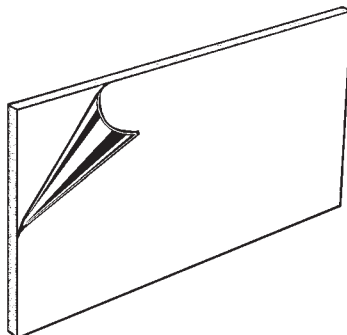
MOUNTING: Use standard dry mounting equipment and adhesives that operate in the range of 180 - 225 °F. 30 - 60 seconds in the press is sufficient for most applications. Foam-X® accepts either hot or cold vacuum mounting. It is also suitable for cold mounting using standard adhesives and low to moderate pressure rollers.

PRINTING AND PAINTING: The white clay-coated surface of Foam-X® is a top quality printing surface. It may also be painted with latex, oil base or acrylic paints.

PRESSURE SENSITIVE FOAM-X

A pressure sensitive Foam-X with DF adhesive film already applied. Hi-Tac version is non-removable while the Lo-Tac version is re-positionable.

Catalog Number	Surface Color	Core Color	Dimensions		Thickness (Inches)	Put Up	Adhesive Type
			Width	Length			
FOM-618-PSHT	White	White	48"	96"	.187	25	Hi-Tac Adhesive
FOM-618-PSLT	White	White	48"	96"	.187	25	Lo-Tac Adhesive

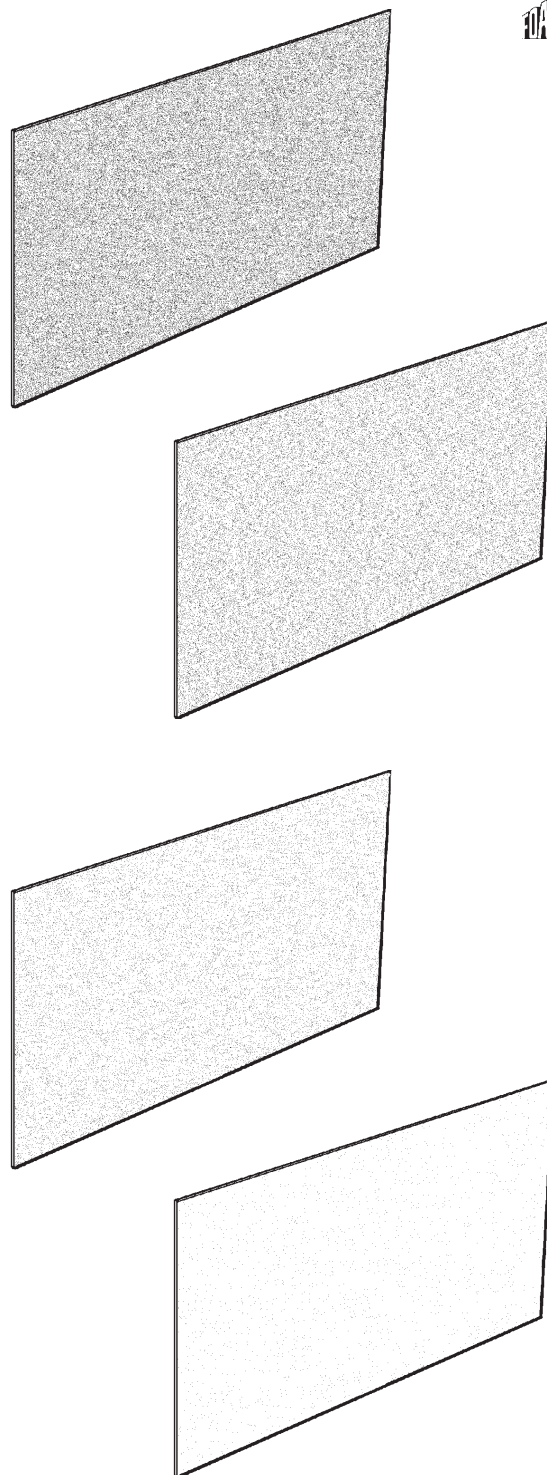




COLORED FOAM-X • FOAM BOARD

We offer foam board in a wide variety of vibrant colors. Boards are coated with high quality pigmented inks on one side. Our modern coating facility and unique ink formulas enables color matching to any Pantone® color including fluorescents and metallics. Other Pantone® colors, board sizes and thicknesses also available. Please call for quote.

A Pantone® Color Matching System Guide is helpful in deciding on color shade, intensity and finish when selecting colored foam boards from chart below.



Substrates

Catalog Number	Pantone® Color ⁽¹⁾	Width	Length	Thickness (Inches)
C1F-012C-618	Yellow 012 C	48"	96"	.177
C1F-WRC-618	Warm Red C	48"	96"	.177
C1F-RHRC-618	Rhodamine Red C	48"	96"	.177
C1F-FBU-618	Flat Black U	48"	96"	.177
C1F-PC-618	Purple C	48"	96"	.177
C1F-VC-618	Violet C	48"	96"	.177
C1F-PBC-618	Process Blue C	48"	96"	.177
C1F-GC-618	Green C	48"	96"	.177
C1F-GBC-618	Black C	48"	96"	.177
C1F-RBC-618	Reflex Blue C	48"	96"	.177
C1F-021C-618	Orange 021 C	48"	96"	.177
C1F-032C-618	Red 032 C	48"	96"	.177
C1F-PYC-618	Process Yellow	48"	96"	.177
C1F-116C-618	Yellow 116 C	48"	96"	.177
C1F-170C-618	Coral 170 C	48"	96"	.177
C1F-178C-618	Dark Coral 178 C	48"	96"	.177
C1F-210C-618	Light Pink 210 C	48"	96"	.177
C1F-220C-618	Raspberry 220 C	48"	96"	.177
C1F-2602C-618	Dark Purple 2602 C	48"	96"	.177
C1F-300C-618	Blue 300 C	48"	96"	.177
C1F-320C-618	Teal 320 C	48"	96"	.177
C1F-322C-618	Dark Teal 322 C	48"	96"	.177
C1F-354C-618	Green 354 C	48"	96"	.177
C1F-3955C-618	Lemon Yellow 3955 C	48"	96"	.177
C1F-422C-618	Light Gray 422 C	48"	96"	.177
C1F-430C-618	Gray 430 C	48"	96"	.177
C1F-464C-618	Brown 464 C	48"	96"	.177
C1F-467C-618	Light Beige 467 C	48"	96"	.177
C1F-473C-618	Light Peach 473 C	48"	96"	.177
C1F-485C-618	Red 485 C	48"	96"	.177
C1F-801U-618	Florescent Blue 801 U	48"	96"	.177
C1F-802U-618	Florescent Green 802 U	48"	96"	.177
C1F-803U-618	Florescent Yellow 803 U	48"	96"	.177
C1F-804U-618	Florescent Orange 804 U	48"	96"	.177
C1F-805U-618	Florescent Red 805 U	48"	96"	.177
C1F-806U-618	Florescent Pink 806 U	48"	96"	.177
C1F-807U-618	Florescent Purple 807 U	48"	96"	.177
C1F-872C-618	Metallic Gold 872 C	48"	96"	.177
C1F-877C-618	Metallic Silver 877 C	48"	96"	.177
INT-PMS-G	Pantone® Color Matching System Guide			

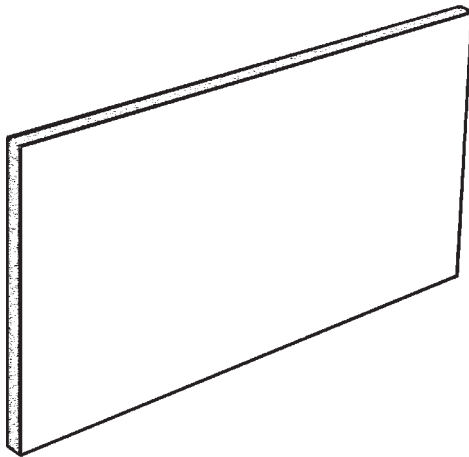
NOTE: ⁽¹⁾ C=Coated (Gloss). U=Un-coated (Flat).

KAPA-BLOC

KAPA-BLOC

Kapa-Bloc is a polyurethane foam-centered board, laminated to two sheets of melamine resin coated paper. This rugged durable board can be used for a wide range of applications including photo mounting, exhibits, signage, screen-printing and POP displays.

Catalog Number	Surface Color	Core Color	Dimensions		Thickness (Inches)	Put Up
			Width	Length		
K-618-02	White	Gray	48"	96"	.187	18
K-644-02	White	Gray	60"	120"	.187	18
K-918-02	White	Gray	48"	96"	.500	9
K-944-02	White	Gray	60"	120"	.500	6
K-618-01	Black	Gray	48"	96"	.187	18
K-644-01	Black	Gray	60"	120"	.187	18
K-918-01	Black	Gray	48"	96"	.500	9
K-944-01	Black	Gray	60"	120"	.500	6



CUTTING: Mat knives, razor blades or utility knives will provide a clean consistent edge. The blades must be sharp and positioned at a minimal angle (approx. 30°). Mat or foam board cutters are also suitable.

SAWING: Rotary saws, band saws, scroll saws or standard table saws can also provide an acceptable cut edge. A blade with carbide teeth and triple chip tooth configuration produces the best cut. The rotation speed of the blade should be at the maximum setting with the travel speed at a low setting.

ROUTING: Single edged straight carbide bits produce the best results.

DIE CUTTING: 3/16" (5mm) Kapa-Bloc material can be die-cut with steel rule dies or rotary die cutters.

PAINTING AND SCREEN PRINTING: Kapa-Bloc material can be painted or screen-printed with many common water or solvent based coatings (core material does not deteriorate upon contact with solvent based coatings). Both conventional and UV cured screen print inks can be used with Kapa-Bloc material. When using water dispersion coating on foam centered boards, it is important to cover both sides of the board in order to reduce bowing.

MOUNTING: Dry mounting on Kapa-Bloc material can be accomplished with a heat press or combination heat/vacuum presses. Vacuum mounting can be accomplished with either spray or wet mounting adhesives. When utilizing wet adhesives, it is important not to use an excess of adhesive. It is also advisable to apply a backing sheet of the same strength on the reverse side of the board to help prevent bowing. Pressure sensitive adhesives, depending on the product used, can be used with or without press equipment.

BONDING: White glues, hot melt adhesives, spray cements and double sided tapes will bond Kapa-Bloc material. Solvent based adhesives may also be used. All methods of bonding Kapa-Bloc material should be tested prior to committing to a production run.

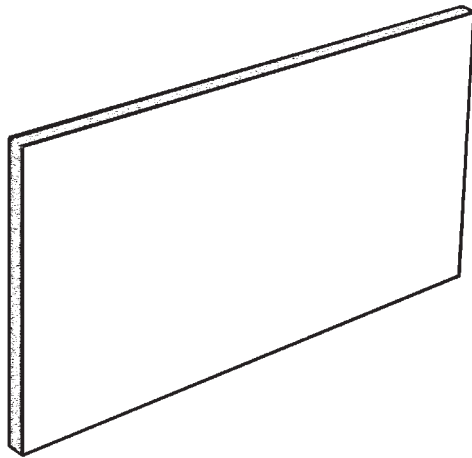
WEATHERABILITY: Kapa-Bloc material is moisture resistant. There is little to no change in Kapa-Bloc material when exposed to a very moist conditions for a prolonged period of time. The core material is unaffected by ultraviolet radiation and requires no protection when used out doors.

Substrates

MIGHTYCORE

Mightycore has a smooth paper cap sheet with an underlying moisture barrier that helps prevent bowing and twisting and creates a "no preparation" surface for many applications. Most paints, inks and adhesives are very receptive to the specially engineered paper laminate. The MightyCore heavy duty liners resist denting, bending, crushing, cracking and splintering. Its dense polystyrene core has added durability to resist bending or crushing. MightyCore is stable at various temperatures and humidity levels. May be available with a black surface, black core.

Catalog Number	Surface Color	Core Color	Dimensions		Thickness (Inches)	Put Up
			Width	Length		
HUN-706-02	White	White	40"	60"	.250	25
HUN-718-02	White	White	48"	96"	.250	12
HUN-918-02	White	White	48"	96"	.500	12
HUN-920-02	White	White	48"	120"	.500	10



Substrates

MOUNTING: When working with a hot roller laminator, use a heat-activation adhesive like Seal MultiBond. When working with a cold roller laminator use a pressure sensitive adhesive such as Seal PrintMount. You can mount 1/4" MightyCore in a mechanical or vacuum press with Seal ColorMount adhesive films, with temperatures between 170° and 190°F for three to four minutes, depending upon the adhesive's recommendation. Additionally, 1/4" MightyCore has been used successfully with Seal Print Guard UV laminates, with require 200°F to 215°F temperature for seven minutes. We do not recommend dry mounting with 1/2" MightyCore.

HAND CUTTING: Use a knife with a thin, short blade. Mat cutters, power cutters and single-edge razor blades all can be used for manual cutting.

MACHINE CUTTING: The Piranha Black & Decker carbide tooth blade on a table saw, radial arm saw or circular saw is recommended. MightyCore can also be cut with a very fine brand saw.

ROUTING: Routing is generally not recommended because of the sensitive nature of the product's paper liners.

DIE CUTTING: MightyCore 1/4" board can be die-cut using a 3-point center bevel and 1/2" medium density ejection rubber. A side bevel will also work in most cases. Because MightyCore is a full 1/4" thick, use a 1/2" dieboard when constructing the die.

PRINTING: MightyCore accepts most solvent based, water based and UV inks. There is no need for surface preparation prior to printing; however, a clear sealer may be used.

GLUING: Use a roller for easy application. Use hot melt glue, white glue or carpenter's glue for edge-to-edge gluing. Apply a thin coat to the edge of one board and press firmly against the edge to be joined to it. To join two MightyCore boards together, use hot melt glue, rubber cement, contact cement, spray adhesives or white glue.

WORKING WITH VINYL: Vinyl lettering successfully adheres to MightyCore, however repositioning vinyl letters or removing them will damage the surface paper.

GROMMETS AND SCREWS: MightyCore holds grommets and screws effectively and more securely than any other heavy duty foam board without cracking the surface.

POLYGUARD • PAPERBOARD

Polyguard is a smooth, heavy polyethylene, glass coated white paperboard. It is an excellent choice for vinyl graphics, screen printing and mounting applications, especially when an inexpensive yet rigid substrate is needed. It is designed for indoor displays and outdoor signs that are subject to high changeover with low structural strength. Edges are not coated and should be protected with tape, vinyl or edge moulding for longer life. The super smooth Corona treated surfaces accepts screen printing inks and mounting adhesives. Vinyl graphics may be applied wet or dry without damage to the board by the transfer tape. The water resistant coating on both sides allows indoor or outdoor use.

Catalog Number	Color	Width	Length	Thickness (Inches)	Weight (Lbs.)	Put Up
PAP2844048PG	White	28"	44"	.048	1.5	25

CUTTING: Hand cut using a sharp mat or utility knife. Can be guillotine or die cut. May also be hand or machine scored.

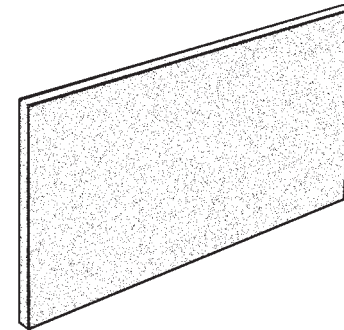
SCREEN PRINTING: UV inks can be used and must be properly cured. Approximate Dyne level is 40. Always pre-test selected ink prior to a production run.

MOUNTING: Pressure sensitive, acrylic or hot melt mounting may be used. Avoid high solvent adhesives. Wet or dry vinyl graphics may be applied to cleaned surface. Always remove transfer tape at a 180 degree angle. To reposition graphics, remove with razor knife and reapply.

BLACK CHIPBOARD

Brown chipboard, clay coated white on 1 side.

Catalog Number	Color	Width	Length	Thickness (Inches)
PAP-2844050BC	Black	28"	44"	.050

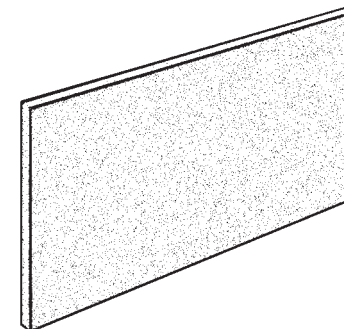


Substrates

THRU WHITE PAPERBOARD

White clay coated on 2 sides with a white core.

Catalog Number	Color	Width	Length	Thickness (Inches)	Weight (Lbs.)
PAP-2844048	White	28"	44"	.048	1.6



CARDSTOCK • PAPERBOARD

A large variety of cardstock is available. Call for more information.



ULTRA BOARD

Ultra Board is a lightweight panel consisting of a polystyrene foam core faced on both sides with .015" polystyrene. These faces provide excellent surfaces for painting, silk screening, photo mounting and vinyl lay up. Ultra Board is trimmed and squared on four sides and is also available untrimmed at a lower cost. UV radiation degrades foam, any exposed foam should be protected with a good quality, pigmented water base coating. Chrome and other colored sheets also available.

Catalog Number	Color	Dimensions		Thickness (Inches)	Put Up
		Width	Length		
UB-618-02T	White	48"	96"	.187	16
UB-918-02T	White	48"	96"	.50	12
UB-1118-02T	White	48"	96"	.75	8
UB-1120-02T	White	48"	120"	.75	Bulk
UB-1318-02T	White	48"	96"	1.00	12
UB-1518-02T	White	48"	96"	1.50	8
UB-1718-02T	White	48"	96"	2.00	6
UB-1918-02T	White	48"	96"	3.00	4
UB-618-01T	Black	48"	96"	.187	16
UB-918-01T	Black	48"	96"	.50	12
UB-1118-01T	Black	48"	96"	.75	8
UB-1518-01T	Black	48"	96"	1.50	8
UB-918-BG01	Brushed Gold ⁽¹⁾	48"	96"	.50	12
UB-918-BS01	Brushed Silver ⁽¹⁾	48"	96"	.50	12

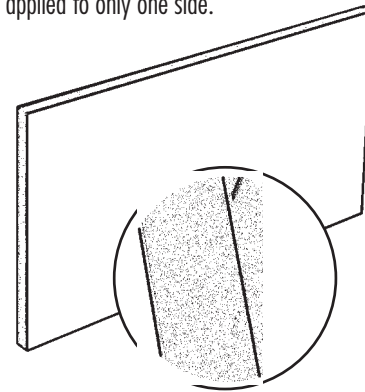
NOTE: ⁽¹⁾ 2nd surface is black.

CUTTING: Ultra Board can be cut with a standard table saw. Routing Ultra Board works well. Use a 2 flute, 1/4" router bit at a speed of 20,000 rpm at a feed rate of 60 in./min. Ultra Board .187" to .50" thick die cuts well. Guillotine cutting is not recommended.

PAINTING: Ultra Board can be painted with water based latex or acrylic, water or oil based enamels and solvent based lacquers. Caution should be taken when using oil base or solvent base systems not to allow paint to make contact with the polystyrene core.

SCREEN PRINTING: Ultra Board accepts most printing inks. Panels may be cleaned with a tack cloth or isopropyl alcohol.

PHOTO MOUNTING: Pressure sensitive film is the most important consideration for mounting photographs to Ultra Board. Contact the film manufacturer for recommendations. Dry mounting is not recommended with Ultra Board as the panels tend to warp when heat is applied to only one side.



Substrates

ULTRA MOUNT

Ultra Mount is a lightweight structural panel consisting of a white extruded polystyrene foam core faced on both sides with white poly-coated 18 pt. Kraft paper. Face laminates have been specially developed to provide a good surface for painting, silk screening, photo mounting and vinyl lay up. Ultra Mount is not recommended for exterior use.

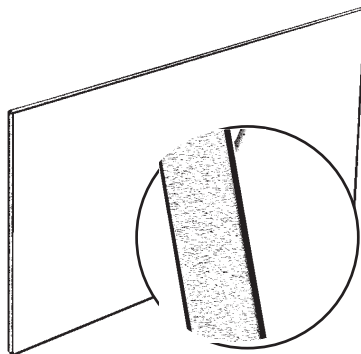
Catalog Number	Color	Dimensions		Thickness (Inches)	Put Up
		Width	Length		
UM-618-02	White	48"	96"	.187	32
UM-918-02	White	48"	96"	.50	24
UM-618-01	Black	48"	96"	.187	32
UM-918-01	Black	48"	96"	.50	24

CUTTING: Ultra Mount can be cut with a circular saw blade specifically designed for cutting paper faced foam boards. Thin-rimmed high speed carbide-tipped plastic cutting blades (72 to 80, 25° alternating teeth on a 10" dia.) are recommended.

PAINTING: Ultra Mount can be painted with poster colors, acrylic paints, tempera, India ink or latex-based pigments. Caution should be taken when using oil based or solvent based systems not to allow the paint to come in contact with the polystyrene core.

PRINTING AND SCREENING: Ultra Mount faces accept most printing and screening inks well. Always test ink prior to production run. For best results in silk screening, wipe the panel clean with a tack cloth prior to printing. Forced drying by hot air ovens is not recommended.

PHOTO MOUNTING: Dry mounting temperatures should be kept below 200° F if possible. Vacuum mounting works well. Spray adhesives and wet mounting techniques are also suitable.

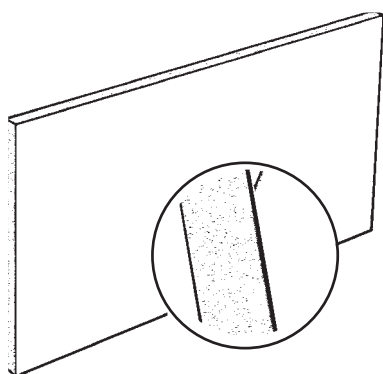


ULTRA PLUS



Ultra Plus is a lightweight structural panel consisting of a white or black rigid polystyrene foam core faced on both sides with a smooth, moisture resistant sheet of 1mm expanded PVC. Face laminates have been specially developed to provide an excellent surface for painting, silk screening, laminating, photo mounting and vinyl lay up. Ultra Plus is an excellent choice for interior and exterior signage, mounting, exhibits, POP displays and routed letters. Black Ultra Plus is not recommended for exterior use. Other sizes and colors also available.

Catalog Number	Color	Dimensions		Thickness (Inches)	Put Up
		Width	Length		
UP-718-02	White	48"	96"	.25	12
UP-918-02	White	48"	96"	.50	12
UP-1518-02	White	48"	96"	1.50	8
UP-1718-02	White	48"	96"	2.00	6
UP-718-01	Black	48"	96"	.25	12
UP-918-01	Black	48"	96"	.50	12
UP-1318-01	Black	48"	96"	1.00	12



CUTTING: Ultra Plus can be cut with a circular saw blade designed for cutting Ultra Plus.

PAINTING: Ultra Plus needs no special preparation before priming or painting. For best results surface should be clean and free of any oil contaminates. Cleaning the panel with glass cleaner or isopropyl alcohol just prior to coating can accomplish this. Most sign quality oil and solvent based paints can be used provided that paint is not allowed to come into contact with the polystyrene core.

PRINTING AND SCREENING: Ultra Plus panels are rigid, lightweight and easy to handle. The surface of Ultra Plus has a closed cell matte finish that makes screen printing easy to accomplish. The use of vinyl and vinyl/acrylic solvent based inks are very compatible. The use of water based inks has also had some success with Ultra Plus.

PHOTO MOUNTING: The surface of Ultra Plus makes an excellent material for pressure sensitive photo mounting. Because of the rigidity of the panel, finished mounts are stronger than mounts using lighter foam-type substances. Also suitable for mounting resin coated photo papers, Cibachrome prints, posters, lithographs, blueprints, plastic-coated maps, rice paper, vellum, art papers, foils, tissues, newsprint and most paper.

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