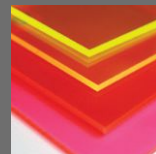




Product Catalog



Wholesale distributor of industrial and decorative plastic sheets, rods and tubes.
Wholesale producer of your unique plastic component parts.

Locations



Corporate Offices

E&T Plastics Mfg. Co., Inc.

45-45 37th Street, Long Island City, NY 11101

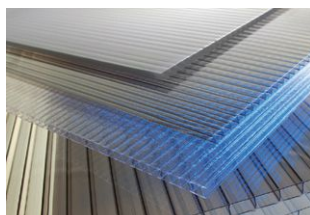
Phone: (800) 221-9555 | (718) 729-6226

Fax: (718) 392-6277

info@e-tplastics.com

Since 1946, E&T Plastics has been helping its customers meet the demands of industry...

Our experienced sales staff offers you individualized service and attention to detail. Taking care of our customers is our highest priority. We have an extensive inventory of common and hard to find items. Quality products at competitive prices is our commitment to you.



E&T Plastics of Florida, Inc.

2830 NW 55th Court

Ft. Lauderdale, FL 33309

(800) 234-4525 • (954) 735-8777

Dade (305) 940-2519

fax: (954) 735-8907

E&T Plastics of Illinois, Inc.

140 Fairbanks Street

Addison IL 60101

(800) 559-0080 • (630) 628-9048

fax: (630) 628-9049

E&T Plastics of Kansas City

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Riverside, MO 64105

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Mt. Laurel, NJ 08054

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Blaine MN 55434

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fax: (201) 727-8114

E&T Plastics of Ohio, Inc.

575 Kennedy Road

Akron, OH 44305

(800) 383-7753

(330) 798-6161

fax: (330) 798-6175

E&T Plastics of Texas

1174 Security Drive

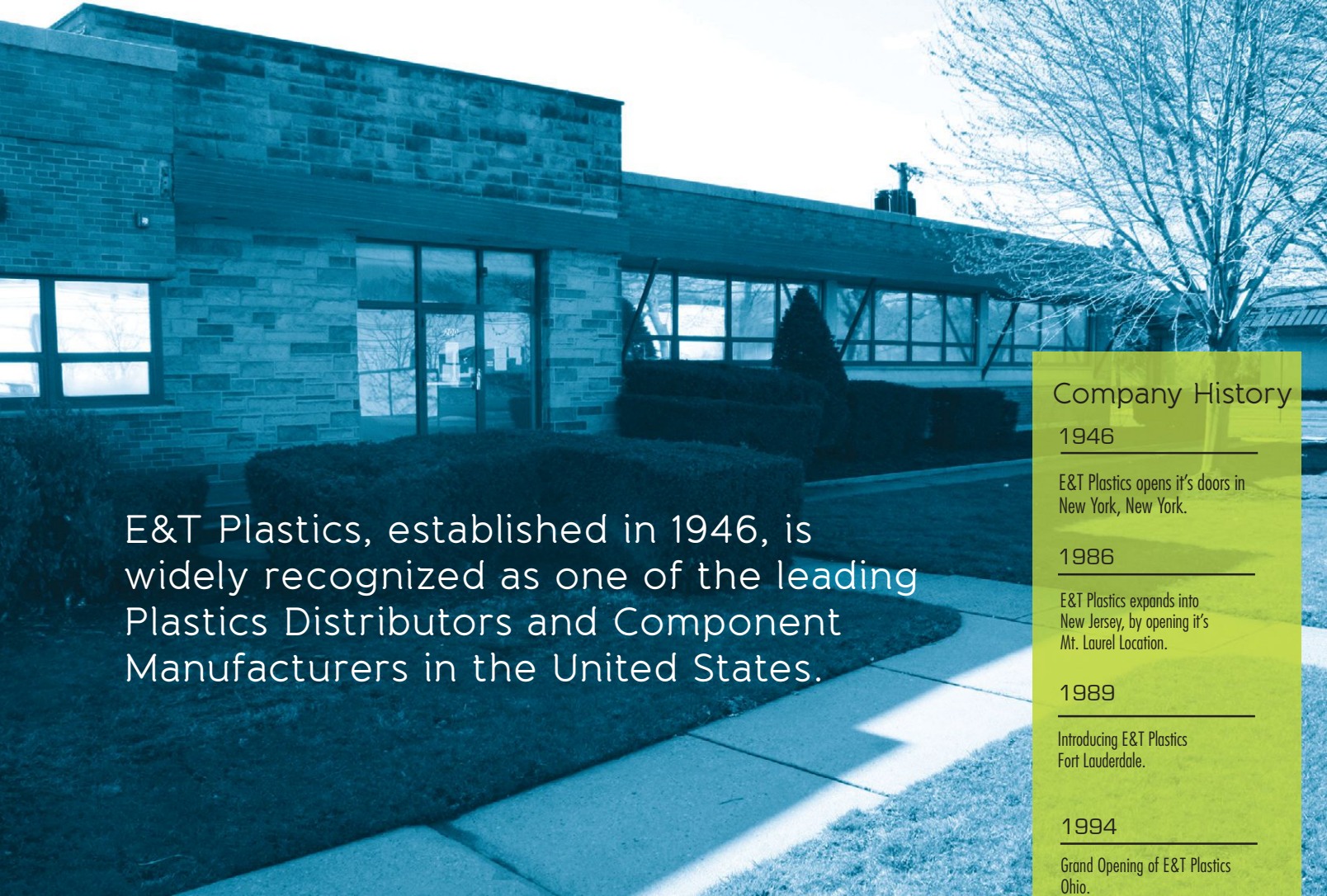
Dallas TX 75247

(877) 265-8944

(214) 622-6263

fax: (214) 622-6269





E&T Plastics, established in 1946, is widely recognized as one of the leading Plastics Distributors and Component Manufacturers in the United States.

About Us

E&T Plastics was founded in 1946. It is the feel good story of 2 men who pursued and found the American Dream. Rudy Thal and Sid Erman started a small business. Their hard work, dedication and ability to exceed customers expectations paved the way for current President Gary Thal. These humble beginnings create an atmosphere where we care about all types of customers.

Today E&T Plastics is widely recognized as the leading Plastics Distributor and component manufacturer in the United States. Our long time association with world class manufacturers guarantee our clients will receive the finest product at the best price. Further, our large inventories ensure you will receive the merchandise in your required time frame.

Our base business is distribution. We supply semi-finished plastic sheets, rods and tubes. Additionally we are able to take these products and cut or shape them to your precise requirements. We have the ability to cut to size, laser cut, CNC routing to shape and more.

At E&T Plastics our goal is to take care of our most important asset, or customers. Let our professional sales staff help turn your vision into a reality. Find out for yourself why at E&T Plastics the future is now.

You can find us on our website: www.e-tplastics.com

Company History

1946

E&T Plastics opens it's doors in New York, New York.

1986

E&T Plastics expands into New Jersey, by opening it's Mt. Laurel Location.

1989

Introducing E&T Plastics Fort Lauderdale.

1994

Grand Opening of E&T Plastics Ohio.

1998

E&T Plastics enters Chicago market with the opening of the Illinois facility.

2006

E&T Plastics expands into Minnesota.

2007

Growth for E&T continues with a new Texas location.

2010

E&T Plastics opens a new distribution center in Teterboro New Jersey.

2014

Kansas City becomes the ninth location of E&T Plastics.

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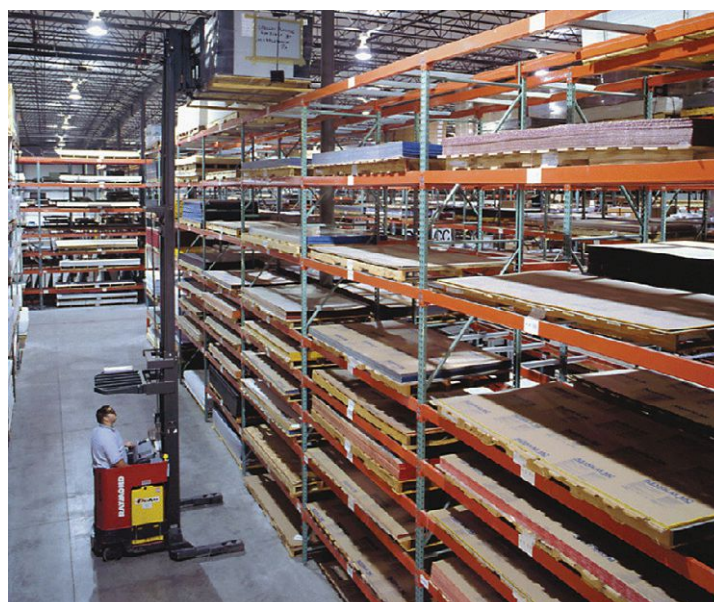
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Acrylic Sheet

E&T Plastics offers standard manufactured sizes of acrylic sheet. We also can process these to your custom specified size or shape. Our company offers CNC machining, laser cutting, saw cutting to size, Edge polishing and a variety of additional fabrication methods. Contact us for the professional service you deserve.

Acrylic sheet is the best known and most widely used plastic. The reasons why are simple.

- **Optical Clarity** - 92% light transmission makes it clearer than glass.
- **Colorfast** - Does not yellow after prolonged exposure to sunlight.
- **Impact Resistance** - 10 times more shatter resistant than glass.
Also available in bullet resistant grade.
- **Light Weight** - Less than half the weight of glass.
- **Easy to Work with** - It can be cut, drilled, polished, solvent cemented, thermoformed, painted, silk screened, laminated, the possibilities are endless.

Acrylic Sheet Weight

Clear & Colors					
Gauge	Lb./SF	Gauge	Lb./SF	Gauge	Lb./SF
.060	.35	.236	1.44	1.50	9.0
.090	.52	.375	2.37	2.00	12.0
.100	.57	.500	3.00	2.50	15.0
.118	.70	.750	4.50	3.00	18.0
.177	1.10	1.00	6.00	3.50	21.0
.220	1.35	1.25	7.50	4.00	24.0
				6.00	36.0

Ask about our laser cutting & CNC routing capabilities





Acrylic Colors

E & T Plastics stocks the most extensive inventory of acrylic sheet in the industry. We have global purchasing power and over 60 Years experience. We offer our customers the widest selection from the best manufacturers in the world. Our strength is in acrylic sheet.

Here are just a few reasons why:

- **Extra large sheets** - Some distributors offer only a few sheet sizes. E&T Plastics offers all sheet sizes in stock-even up to 100" x 150".
- **The Largest Color Selection** - in stock.
- **Thick Gauge Acrylic** - in stock. Clear acrylic up to 6" and Colors up to 1" White to 2".
- **All Grades in stock**- Extruded, Continuous Cast and Cell Cast – in stock.
- **Specialty Grades** - U.V. filtering, U.V. transmitting, impact modified, bullet resisting, patterns - in stock.

Acrylic Sheet

Clear & Colors

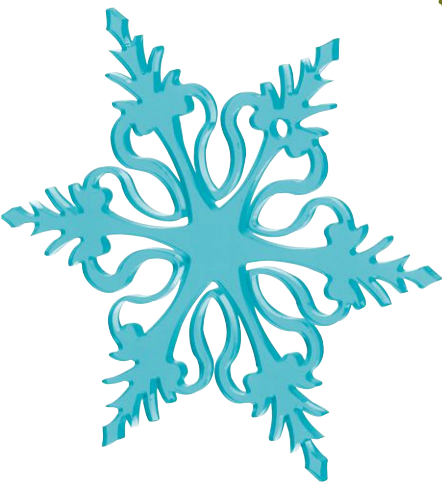
	.030	.040	.060	.080	.100	.118	.177	.220	.354	.472	.704	1.0	1.25	1.50	1.75	2.0	2.50	3.0	3.50	4.0	6.0
	1/32	1/25	1/16	5/64	3/32	1/8	3/16	1/4	3/8	1/2	3/4										
36 x 48	✓																				
48 x 72		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓			✓						✓
48 x 84															✓	✓	✓	✓	✓	✓	
48 x 96		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
48 x 120					✓	✓	✓	✓	✓	✓	✓	✓									
48 x 144							✓	✓													
51 x 100				✓	✓	✓	✓	✓													
60 x 96				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
60 x 120						✓	✓	✓	✓	✓											
63 x 100						✓	✓	✓													
72 x 96				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
72 x 120						✓	✓	✓													
72 x 144							✓	✓													
75 x 100						✓	✓	✓													
80 X 120								✓	✓	✓	✓	✓									
100 x 100							✓	✓													
100 x 125							✓	✓													
100 x 150							✓	✓													

Please note -These represent the most commonly stocked items. E&T Plastics often stocks many unique sizes. We can also supply run-to-size and cut-to-size. Please contact us for all your acrylic needs.

Caring for Acrylic Sheet:

- Store away from direct sunlight or heat. Exposure can make removal of protective masking difficult.
- To Clean Acrylite sheet use a mild soap and water solution. Wipe with a soft cloth.
- Refer to "Caring for Acrylite Sheet" pamphlet.

For Physical Properties, Codes, Standards, and Technical Support, visit www.acrylite.net for immediate access to frequently asked questions, technical information, fabrication tips, physical properties, from North America's leading acrylic sheet manufacturer.



We can laser cut this item!

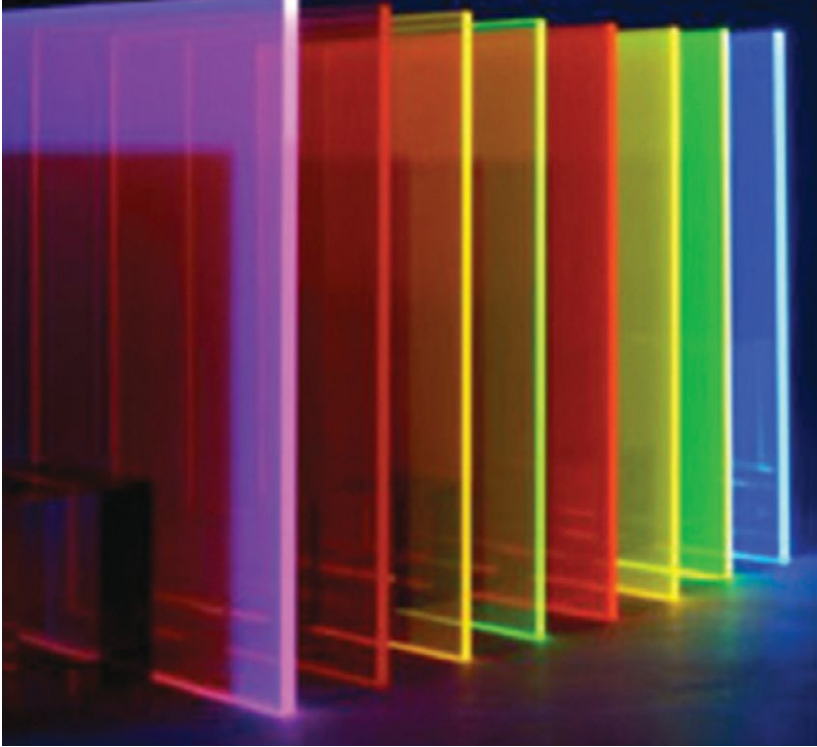
One of the reasons acrylic sheet is so popular is that it is available in stunning colors and the color runs throughout the sheet. After colored acrylic is cut or shaped, its edges can be polished to a high gloss to match the surface of the sheet.

We feature standard colors that are opaque, translucent and transparent. Opaque colors allow no light to pass through. Translucent items allow varying amounts of light transmission. Transparent colors allow you to see through their color.

Custom Colors: Available in almost any color you can imagine. Order as few as 15 sheets and choose from Pantone colors, other identification service or supply a color swatch you'd like to match. Select from transparent, translucent or opaque colors and specify texture- glossy, matte and more! Since custom colors are made to order be prepared to wait for colors to be matched, approved and produced.

Acrylic Color Reference Chart

Color Description	New Cyro Cast #	New Cyro Extruded #	Competitor ID#	Optics Type	Color Description	New Cyro Cast #	New Cyro Extruded #	Competitor ID#	Optics Type
Amber	1C23		2422	T	Ivory	1H31	1K031	2146	TL
Black	9H01	9M001	2025	O	Orange	2H20	2K020	2119	TL
Black/White	9H04 SC	9K004	1124-0	TL	Red		3M030	2157	TL
Black-IRT	9C20		2650	T	Red	3H38		2415	TL
Blue	5H30	5K030	2114	TL	Red	3H32	3K032	2283	TL
Blue	5H31	5K031	2050	TL	Red	3H31	3K031	2793	TL
Blue	5H36	5RK36	2051	TL	Red	3C01	3M031	2423	T
Blue	5C26	5C026	2069	T	Violet	4H21		2287	TL
Blue	5C28	5C028	2424	T	White		WT018	3015	O
Blue	5H50	5K050	2648	TL	White	WM23		7508	TL
Bronze	7C24	7C024	2404	T	White	WM30	WT030	7328	TL
Bronze	7C49	7C049	2412	T	White	WM31	WT031	2447	TL
Bronze	8C30	8C030	2370	T	White	WM12		7420	TL
Brown	8H22		2418	O	White	WM22		2067	TL
Grey	7C25	7C025	2064	T	White	WM34		7138	TL
Grey-Battleship	7H21		5040	O	White	0970	WT020	2371	O
Grey-Extruded		7C026	2074	T	Yellow	1H32	1K032	2016	TL
Green	6H22	6K022	2108	TL	Yellow	1H30	1K030	2037	TL
Green	6H21	6K021	2030	TL	Yellow	1H33		2465	TL
Green Edge	6F20	6B020	3030	T	Yellow	1C22		2208	T
Green Bottle	6C32	6C032	2111	T	Pink			3199	TL
Green	6C28	6C028	2092	T	Pink			1040	T
					Purple		WC023	1020	T



Fluorescent

Fluorescent acrylic sheet is unique for several reasons. The sheet is transparent, and the edges emit bright and eye catching colors. Look no further for one-of-a-kind designs. Polish the edges or machine with a laser to get maximum effect.

Stock Colors*

Blue, Red, Green, Orange and Yellow
(all with protective paper masking.)

Standard sheet size: 48" X 96".

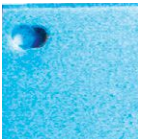
Standard thicknesses: 1/8" and 1/4".

Special order available.

Fluorescent Acrylic Sheet Weight

1/8" .70 lb/sf = 22.40 lbs/sheet

1/4" 1.40 lb/sf = 44.80 lbs/sheet



Blue
9092



Red
9095



Green
9093



Orange
9096



Yellow
9097

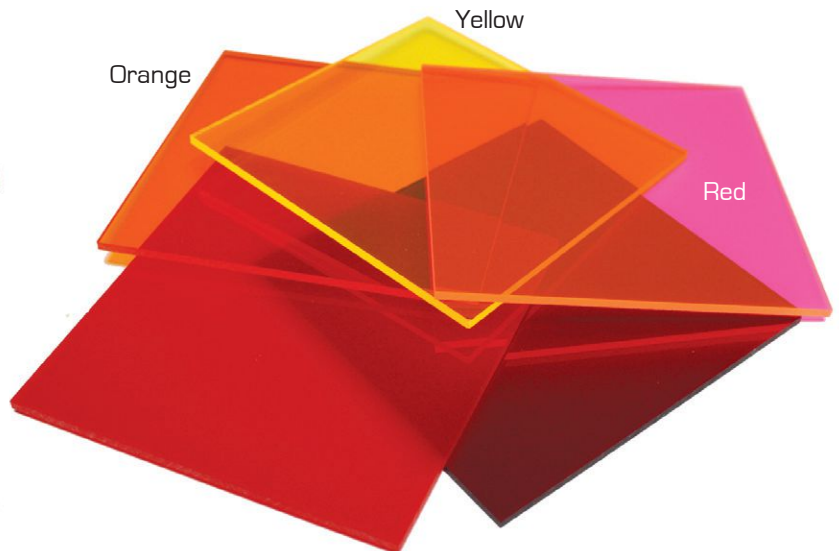
*Please request a color swatch.

Printed color may distort actual color.

Bright, vivid colors!
Edges glow when they catch light.



Green



Yellow

Orange

Red

Cell Cast Acrylic Sheet

Most acrylic sheet is manufactured by either extrusion or cell casting. Cell cast is produced by pouring a liquid monomer into a cell and then placing the cell in an autoclave. The benefits to cell casting are small minimums and a higher molecular weight. This method results in slightly better chemical resistance, heat resistance and clarity. The disadvantage to cell cast is that thickness tolerance within a sheet can vary more than other methods. Extruded sheets are produced by pushing the acrylic resin through a rectangular die that gives the sheet its shape. Extruded sheets are usually less expensive and offer the user less fluctuation in thickness across the sheet. Feel free to discuss your application with an E & T Plastics professional. We'll help you select the right product for your unique application.

EXTRUDED ACRYLIC SHEET

Thickness Tolerance		
Thickness/in.	mm	min-max
0.060	1.5	0.054-0.066
0.080	2.0	0.072-0.088
0.090	2.4	0.081-0.099
0.098	2.5	0.088-0.108
0.118	3.0	0.106-0.130
0.150	3.8	0.143-0.158
0.177	4.5	0.168-0.186
0.220	5.6	0.209-0.231
0.236	6.0	0.224-0.248
0.354	9.0	0.336-0.372
0.472	12.0	0.448-0.496
0.708	18.0	0.673-0.743
0.944	24.0	0.897-0.991

CAST ACRYLIC THICKNESS TOLERANCE

Thickness Tolerance									
Inches	mm	Class 1 Min./Max	Class 2 Min./Max	Class 3 Min./Max	Inches	mm	Class 1 Min./Max	Class 2 Min./Max	Class 3 Min./Max
0.060	1.5	0.040/0.075	0.032/0.084	0.033/0.084	0.354	9.0	0.299-0.379	0.294-0.384	0.289-0.389
0.080	2.0	0.060-0.094	0.052-0.102	0.069-0.119	0.375	9.5	0.320-0.400	0.315-0.405	0.310-0.410
0.098	2.5	0.077-0.111	0.069-0.119	0.069-0.119	0.472	12.0	0.407-0.497	0.402-0.502	0.397-0.507
0.100	2.5	0.079-0.113	0.071-0.121	0.071-0.121	0.500	12.7	0.435-0.525	0.430-0.530	0.425-0.535
0.118	3.0	0.093-0.133	0.088-0.138	0.078-0.148	0.591	15.0	0.520-0.620	0.520-0.620	0.515-0.625
0.125	3.2	0.100-0.140	0.095-0.145	0.085-0.155	0.625	15.9	0.548-0.658	0.548-0.658	0.543-0.663
0.150	3.8	0.120-0.166	0.114-0.172	0.100-0.179	0.708	18.0	0.629-0.739	0.629-0.739	0.619-0.749
0.177	4.3	0.145-0.195	0.140-0.200	0.135-0.205	0.750	19.1	0.670-0.780	0.670-0.780	0.660-0.790
0.177	4.5	0.144-0.194	0.139-0.199	0.134-0.204	0.944	24.0	0.858-0.968	0.858-0.968	0.833-0.993
0.187	4.7	0.154-0.204	0.149-0.209	0.144-0.214	1.000	25.4	0.913-1.023	0.913-1.023	0.888-1.048
0.197	5.0	0.167-0.227	0.167-0.227	0.167-0.227	1.125	28.6	1.031-1.331	1.031-1.331	1.031-1.331
0.220	5.6	0.180-0.240	0.175-0.245	0.170-0.250	1.250 FG	31.8	1.156-1.302	1.156-1.302	1.156-1.375
0.236	6.0	0.196-0.256	0.191-0.261	0.186-0.266	1.250 BR	31.8	1.250-1.350	1.250-1.350	1.250-1.350
0.250	6.4	0.210-0.270	0.205-0.275	0.200-0.280	1.500	38.1	1.379-1.539	1.379-1.539	1.341-1.577
0.295	7.5	0.249-0.317	0.244-0.322	0.239-0.327	1.750	44.5	1.613-1.799	1.613-1.799	1.570-1.842
0.312	7.9	0.264-0.334	0.259-0.339	0.254-0.344	2.000	50.8	1.848-2.058	1.848-2.058	1.798-2.108

FG=Furniture Grade **BR**=Bullet Resistant

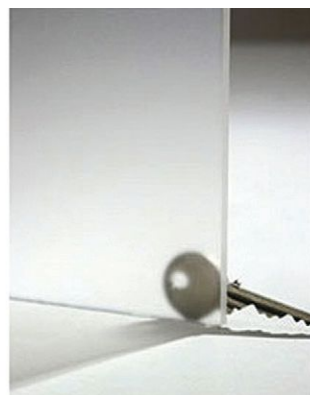
Cast tolerances are determined by sheet size. Larger sheets have greater variance across a sheet and smaller sheets will hold a tighter tolerance. We have assigned class 1, 2 and 3 to differentiate sheet sizes.

Class 1 Sheet Sizes: 36 x 60, 40 x 50, 48 x 96 Sheets .236" & thinner.

Class 2 Sheet Sizes: 2 larger than size 1, including 48 x 84, 53 x 80, 60 x 72, 48 x 96. Sheets .250" & thicker

Class 3 Sheet Sizes: 3 larger than size 3.

Acrylic Textures and Finishes



P-95 Matte Finish reduces reflected light. In direct contact with an object, transparent, clarity is achieved. Popular in clear, white and colors.

DP-9 Double sided Matte Finish is the same texture as P-95 but textured on both sides. It provides same finished look from any viewing angle. Double sided texture also available in custom colors.

FFX/ DP-30 is a textured finish that is frequently used for cutting boards and chair mats. This stipple finish can also be used in glazing applications when privacy is desired while allowing light to pass through. Standard in clear/colorless only. Large minimums for colors.



FFV/ DP-32 is a textured finish that is typically used for Outdoor patio furniture and shower doors. This wavy pattern provides 69% light transmission.

Heavy textured acrylic with edges that polish clear



ACRYLITE® Satinice crystal surface

is continuously manufactured with an appearance of etched glass and a frosted finish that diffuses light to enhance your design options and backlit applications. Its textured surface resists fingerprints and is easy to clean. Conforms to ASTM D 4802 and is largely UV-absorbing; partially UV-transmitting at smaller thicknesses.

Standard gauges: .118", .177", .236", .354"
Standard Sheet size: 49" X 97"

Standard Colors: Colorless, White WM530, Glass Green GM020. ACRYLITE® Satinice crystal surface also available in light blue 5M022.

Texture Code: SC for single crystal, DC for double crystal. Not all colors available in all gauges.



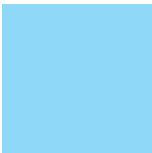
Colorless
New #0M001SC
Old #0917-8



Colorless
New #0M001DC
2 Sides Texture

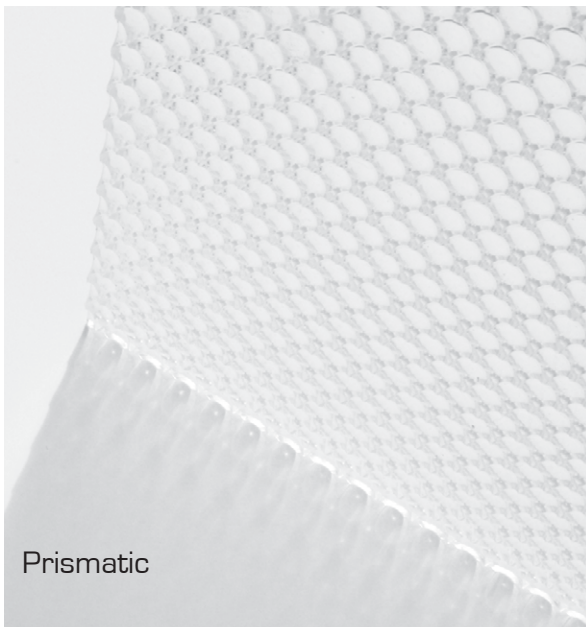


Glass Green
New #6M020
Old #5169-8



Light Blue
New #5M022
Old #6191-8

Satinice crystal surface is available with texture on 1 side or 2 sides



Prismatic

Lighting Panels

E&T Plastics offers a variety of items for use as lighting panels. Acrylic is the most popular as it offers superior clarity and flame resistance when compared to HIPS. Translucent acrylic in colors or textures make great diffusers. Polycarbonate is another popular option, especially when increased flammability rating or security is a concern. We offer full sheets as manufactured or can cut them down to your unique size or shape.

Prismatic Panels - Also referred to as P-4 or P-12. This clear diamond pattern sheet is most popular with recessed fluorescent lighting. Prismatic patterns eliminate glare and obscure fluorescent light sources. Standard sheet sizes are 48" X 96". Acrylic is available in 1/8". Polycarbonate in 1/8", 3/16" or 1/2". We can cut to your exact requirements.

Ribbed Acrylic- Ribbed acrylic is a solid 1/8" thick sheet with a classic linear pattern. The linear pattern diffuses light rays and eliminate harsh spikes of light. These panels have parallel ribs that run for the entire length of the sheet.

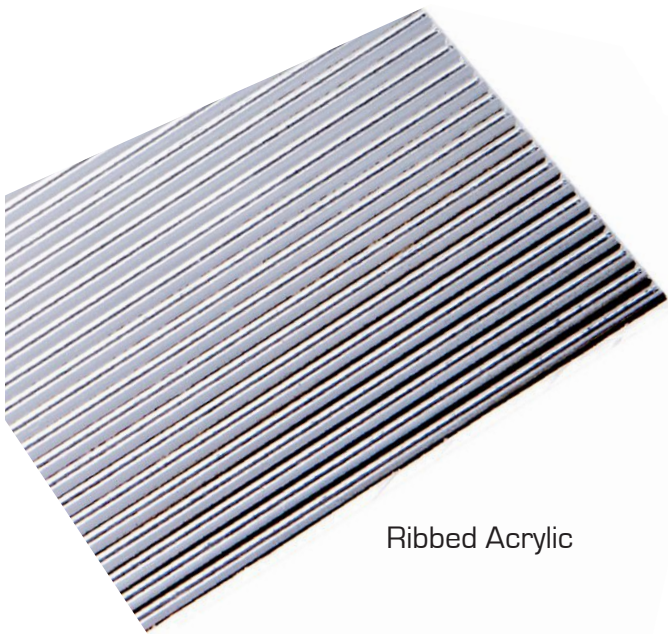
ACRYLITE® Textures – Ribbed or Plaskolite KSH-25. Satinice optimum light diffusion- Select from clear or white. Solid sheet with subtle texture throughout the sheet. Designed to spread light evenly throughout the sheet while hiding hot spots that are created by lighting source.

Satinice Optimum light diffusion- Select from clear or white. Solid sheet with subtle texture throughout the sheet. Designed to spread light evenly throughout the sheet while hiding hot spots that are created by lighting source.

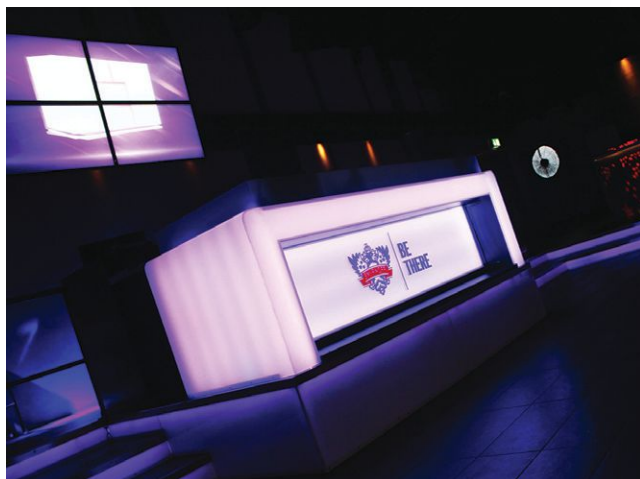
ACRYLITE® Satinice Optimum light diffusion has a frosted appearance throughout the entire sheet straight to the edge that offers excellent light diffusion for indoor or outdoor lit displays, panels and store fixtures. Its surface hides fingerprints and scratches for enhanced service life.

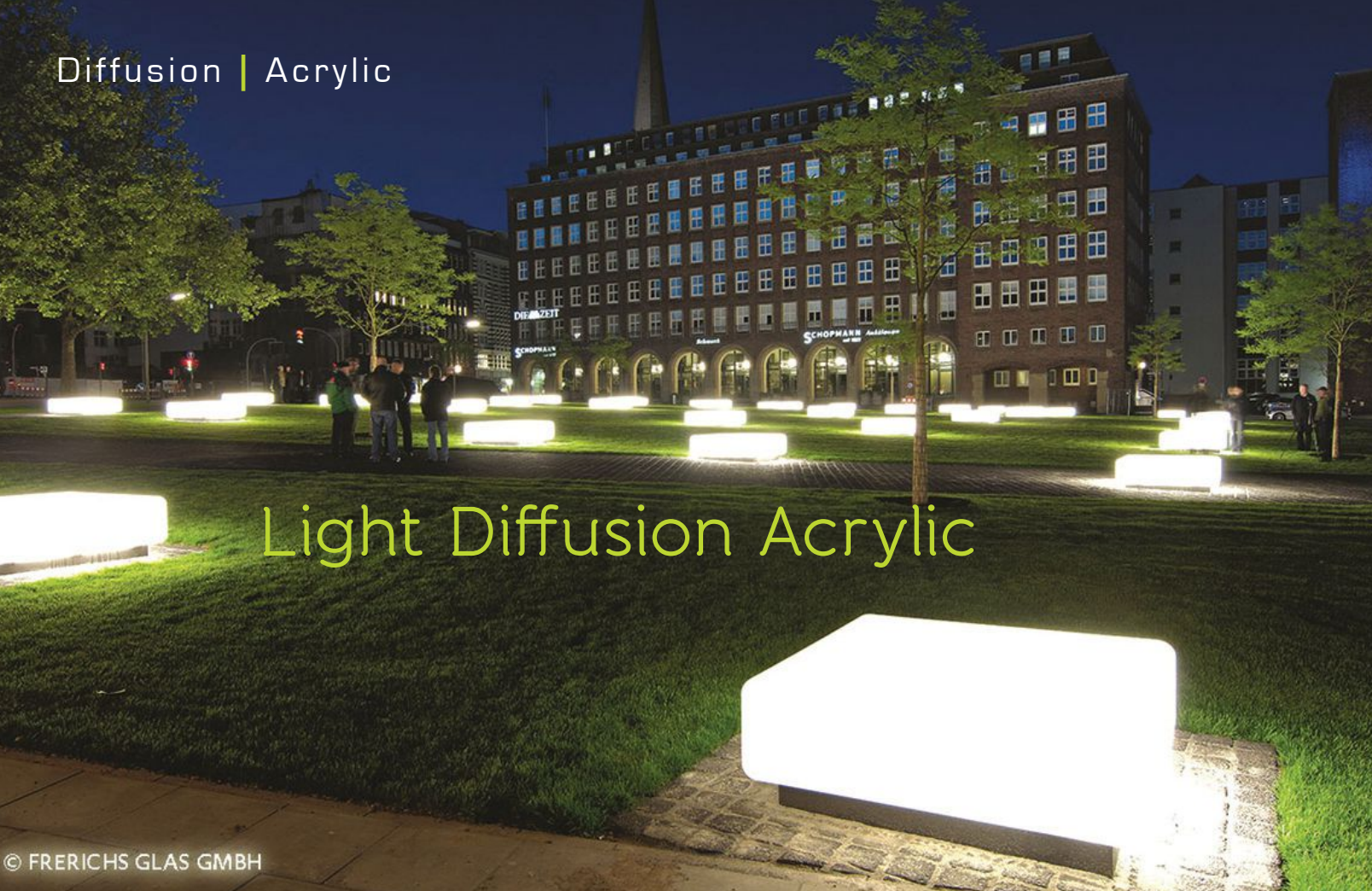
Satinice optimum light diffusion was designed for lighting applications. It can hide hot spots from LED lighting. It conforms to ASTM D 4802 and is largely UV-absorbing; partially UV-transmitting. Available in colorless (ODO10DF) and white (WDO08DF).

Standard gauges: .060", .080", .118", .177", .236", .354", .472"
Standard sheet size: 49" X 97"



Ribbed Acrylic





© FRERICH'S GLAS GMBH



Satinice optimum light diffusion-enhanced

The ACRYLITE® Satinice optimum light diffusion portfolio has been expanded and now offers four additional grades with higher light transmission and greater diffusion. Designed for architectural and linear LED lighting applications, these superior ACRYLITE® specialty acrylic grades are offered in thicknesses depending on your application needs.

Color	Color Number			Color Sample	Half Angle at all thickness	Transmission TD65		Thickness		
								.060	.080	.118
	old	new	Industry					1.5mm	2mm	3mm
	Number of sheets per Half-Pallet based on 48x96									
Colorless	-	WD852	-		20	TL	92%	90	✓	48
Colorless	-	WD853	-		30	TL	85%	90	✓	48
Colorless	-	WD854	-		40	TL	79%	90	✓	48
Colorless	-	WD855	-		50	TL	72%	90	✓	48



Light Diffusing Sheet

Optix LD 2406

Optix LD 2406 is a lightly pigmented white acrylic sheet. The product has a gloss surface making it ideal to apply vinyl and digital imagery. When backlit the result is a bright image with even and consistent illumination. The product was introduced into the sign industry and it also can be used in lighting applications.

Optix LD 2406 light diffusing acrylic sheet provides superior diffusion properties that allow for greater sign design flexibility and slim profile channel (CAN) letters. All grades feature superior weatherability. Visible hot spots and luminance fluctuations are eliminated without affecting the light transmission properties. Offered in a wide variety of stock sizes.

A grade with enhanced impact resistance is also available.

Available Stock Sizes:

Standard with film protective covering.

1/8" x 48" x 96", 1/8" x 51" x 100".

3/16" x 51" x 100", 3/16" x 75" x 100", 3/16" x 75" x 125"



OPTIX LD MAX
2406 WHITE



Premium Grade Acrylic

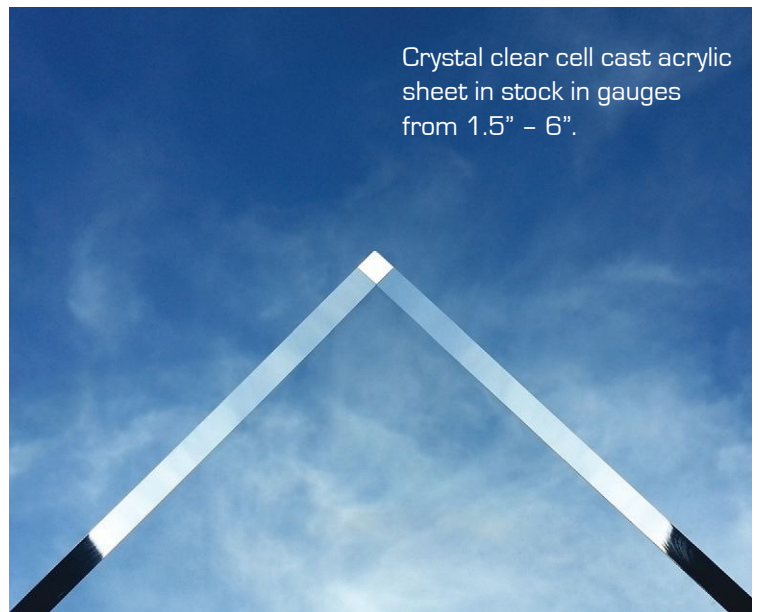
PERCLAX® is the name of the cast methacrylate produced by Clax Italia. It is entirely composed of PMMA, a thermoplastic polymer obtained by bulk-monomer polymerization in the casting processes. Based on the most innovative and advanced technologies, Clax Italia's Perclax® stands out for its outstanding optical properties, extreme purity, transparency, toughness and excellent light and weathering characteristics.

This high quality sheet is ideal for furniture and point-of-purchase displays. Its appearance is water clear. Perclax® machines, polishes and glues as well as any cast acrylic sheet in the world.

Standard sheet sizes: 48" x 99".

Standard thicknesses: 1.50", 1.75", 2.00", 2.50", 3", 4", 5" and 6" standard size 45" x 78"

Crystal clear cell cast acrylic sheet in stock in gauges from 1.5" – 6".



Impact modified acrylic



Cut, polish and cement like general purpose acrylic with benefit of enhanced durability.

ACRYLITE® Resist- impact resistant extruded acrylic combines the beauty and clarity of acrylic with high impact performance for longer lasting, more cost-effective store fixtures and P-O-P displays. It delivers exceptional cost savings through down-gauging without sacrificing the structural integrity of your application.

Standard Gauges: .060", .080", .090", .098", .118", .150", .177", .220", .236", .354", .472".

Standard sheet sizes 48"x 96" and 51" x100".

ACRYLITE® Resist™ 65 This sheet is available in 2 standard grades. Resist 65, and Resist 45. Both offer increased impact resistance over standard acrylic. Resist 65 provides enhanced durability. Resist 45 is lower cost alternative. Both grades assured by 30 year warranty against yellowing.



ACRYLITE® Resist™ 45 has slightly less impact strength than ACRYLITE Resist 65 sheet yet with exceptional optical clarity. It is the practical and economical alternative for store fixtures and P-O-P displays.

Durable and Consistant

ACRYLITE® LED sign grade is the universal acrylic sheet for the sign market, is rigid, tough, easily fabricated, machined and resists chipping and melting. It is perfect for channel lettering, flat and pan faced sign and vacuum formed letter applications. Sign grade impact modified acrylic sheet will withstand severe weather conditions and resist cracking when machined into letters

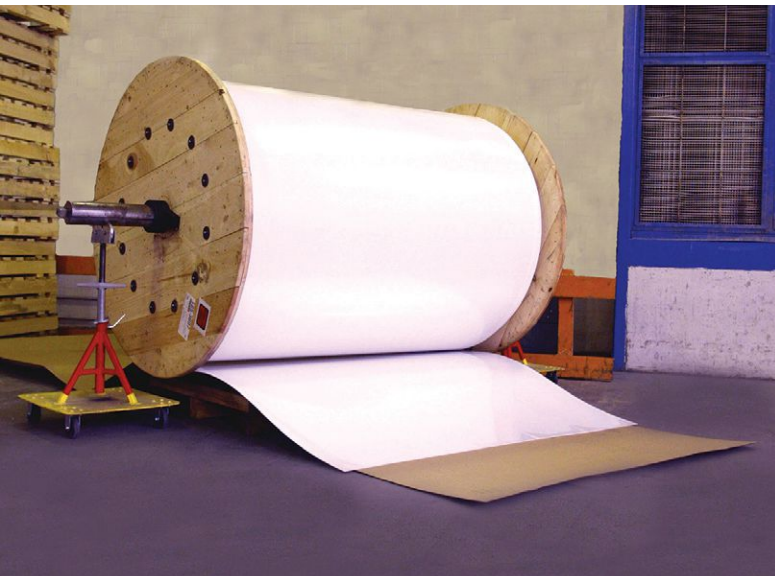
This easily fabricated sheet has outstanding weatherability, excellent light transmission and diffusion. Available in clear, white WRT30 (7328), white WRT31 (2447), red 3RK31 (2793), red 3RK32 (2283) and yellow 1RK30 (2037) in sheets.

Standard gauges:

.118", .177"

Standard sheet sizes:

51" X 100", 51" X 125",
75" X 100", 75" X 125"



ACRYLITE® LED sign grade reels is the same product as LED sign grade but supplied in a continuous coil. This made to order item is available in colorless and white WRT30 (7328).

Available gauges: .118", .150", .177"

Available widths: .51", .75", .100"

Available lengths: .118" @ 400 feet
.150 @ 400 feet
.177 @ 350 feet

Many Picture Framers use acrylic instead of glass...

Acrylic is the choice of framers because it offers superior clarity, is light weight, easy to fabricate and more resistant to breakage than alternative materials. Acrylic is ideal when it comes to large pieces of artwork, commercial installations and projects that require protection from UV rays.



UV filtering Gallery UV filtering (UV3) acrylic sheet offers museum-quality UV protection, but at a slightly reduced level when compared with OP-3. Without sacrificing clarity, impact, and quality, this reduced cost UV-filtering sheet will still provide a high level of UV protection for most applications. It is an ideal choice for those applications which do not need maximum UV protection.

ACRYLITE® Gallery UV filtering (OP3) acrylic sheet offers museum-quality UV protection with the beautiful clarity of the finest picture frame glazing. At half the weight of glass, it is a safer alternative, more resistant to impact, and easier to handle than glass. ACRYLITE® Gallery UV filtering (OP3) sheet offers the highest protection for the irreversible effects of UV damage. It protects from both natural and artificial light thus protecting paper-borne artwork, prints, and documents from fading, yellowing and becoming brittle. The UV protective qualities are part of the sheet structure and therefore can't be scratched off.

ACRYLITE® Gallery UV filtering mar resistant (OP3 MR1) acrylic sheet combines both abrasion and chemical resistance with UV filtering. It protects art from UV light while also protecting the acrylic from scratching due to the abrasive effects of some chemical cleaners. Easily cleaned with common household cleaners, the Mar Resistant coating resists scratching and dulling effects from typical alcohol and ammonia products.

ACRYLITE® Gallery UV filtering non-glare (OP3 P99) acrylic sheet offers UV protection with a matte finish for glare free viewing and enduring enjoyment.



Thicknesses range from .098" to .236" and sheet sizes 48" x 96" to 80" x 120". Check with your salesperson for availability.

ACRYLITE® Gallery UV filtering (OP2) acrylic sheet is guaranteed to be defect free with a maximum level of UV protection. This cell cast sheet is the clear choice for museum vitrines. Easily fabricated, edges can be mitred and cemented for strong nearly invisible joints. It can be thermoformed, screen printed, and painted. This product is also available with an abrasion and chemical resistant coating [OP2 MR1] upon request.



Picture Frame Quality Sheet

ACRYLITE® Gallery framing grade (FF-3).

framing grade sheet is the only acrylic framing grade product that's guaranteed defect free or your money back. It's an exceptional general-purpose glazing for cherished memorabilia, photographs and prints as well as for valued artwork, and is used by museums and galleries for both indoor and outdoor framing.



Protection from glare.

ACRYLITE® Gallery non-glare (P-99)

non-glare sheet was created to minimize glare and reflection and maximize the unhindered viewing of framed artwork. Its matte finish shows the art and nothing but the art from almost any angle and under typical lighting conditions. ACRYLITE® AR P-99 sheet combines abrasion resistance with non-glare performance.



Protection from defects, guaranteed.

Protection from abrasion and chemicals.

ACRYLITE® Gallery mar resistant (MR1).

abrasion resistant sheet has an abrasion and chemical resistant coating on one or both surfaces. The one-sided option offers significant economic savings. Its scratch resistance makes it perfect for high-traffic areas, public displays and children's rooms.



Edge Lit Sheet & Rods

ACRYLITE® LED light guiding edge lit sheet is a transparent, light diffusing acrylic (PMMA) that exhibits special light conducting properties. Whether for artwork, signage or accent lighting, ACRYLITE® LED light guiding edge lit sheet makes it possible to construct flat, large surface or double-sided uniformly bright displays, light boxes, LCD displays, poster panels, room dividers and more.

Double-sided or single-sided emission signs may be constructed. If only 1 side is to be light emitting an opaque and highly reflective panel should be applied to back. For two-sided emission, both top and bottom should be made from same material.

Table below shows standard sizes and recommends maximum size for peak performance. Non-standard sizes available with a special order. Minimums may apply.



- Enables ultra slim < 2" light panels.
- In stock at E&T Plastics



Applications are limited only
by your imagination.
In stock at E&T Plastics.

ACRYLITE® LED light guiding edge lit sheet

Standard Product Offering

Grade	Thickness	Sheet Size	Product Number	Application Widths Peak Performance
L	.157", .236", .315"	49" x 97"	OE011L	up to 24"
L	.315"	80" x 120	OE011L	up to 24"
XL	.157", .236", .315", .394"	49" x 97"	OE012XL	up to 51"
XL	.315", .394"	80" x 120"	OE012XL	up to 51"
XXL	.394"	80" x 120"	OE013XXL	up to 78"



lucitelux®
JUST IMAGINE



Lucitelux® EdgeFX Sheet

Developed specifically for edge lit applications including lighting and signage. Lucitelux® Edge FX continuous cast acrylic sheet is formulated with evenly dispersed illuminating particles to provide bright and even illumination. EdgeFX is suitable for use with LEDs, fluorescent and cold cathode light sources. The stronger the light source, the better the illumination.

- For best results polish the edges that will be closest to light source.
- If only 1 side to be illuminated use reflectors on other sides.
- Keep edges flat.

ACRYLITE® LED Light guiding edge lit rods

are the only product on the market today which offers light transmission in a round rod form. Standard acrylic rods illuminate only at the beginning of the rod, while with ACRYLITE® LED light guiding edge lit rods, light travels the full length and maintains it's strength of illumination.

Ideal for high-powered LED's, ACRYLITE® LED light guiding edge lit rods not only help save on energy costs, they can be easily thermoformed allowing light to travel from end to end without interruption. Bring dazzling light intensity to your next project!



ACRYLITE® LED Light guiding edge lit rods

Color	Color #	Lamp Spacing for Ultra Violet Transmission	Diameter	Length in mm	Packaging at lb/ft	Weight	Diameter tolerance in mm
Clear	OE011 L	Up to 600mm -UVT	20	2000	10	0.25	+/- 0.3
Clear	OE011 L	Up to 500mm -UVT	40	2000	5	1	+/- 0.6
Clear	OE012XL	Up to 600mm-1200mm -UVT	20	2000	10	0.25	+/- 0.3
Clear	OE012XL	Up to 500mm-1100mm -UVT	40	2000	5	1	+/- 0.6
Clear	OE013 XXL	1200mm - 2000mm -UVT	20	2000	10	0.25	+/- 0.3
Clear	OE013 XXL	1200mm - 2000mm -UVT	40	2000	5	1	+/- 0.6

Unique Sign Products

E&T Plastics offers this revolutionary product from 2 high quality suppliers; Evonik and Lucite.

The Evonik offering is called ACRYLITE® LED optimized letter block and Lucite's is called LUCITELUX® Spectrum Block. Either will help you make a bold statement!



ACRYLITE® LED Optimized letter block, is a specially formulated cast acrylic developed for backlighting with embedded LEDs. Combining LEDs with ACRYLITE® LED acrylic makes for maximum efficiency and superior lighting technology, especially in illuminated signs, store fixtures and exhibition booths. ACRYLITE® LED optimized letter block offers the following characteristics:

Sheet Size: 48" X 96" X 1.181" (30MM).

Product Number: WM51

Light Transmission 22%

- High luminous efficiency and therefore cost savings, through improved diffusion

This revolutionary product allows for channels to be routed in sheet to accept an LED light source. Cut shapes emit bright light while disguising the light source. E&T Plastics offers both Lucitelux® Spectrum Block and ACRYLITE® LED optimized letter block. These products can be used with white or colored LED light sources.

- Optimized diffusion with even illumination.
- Easy to machine.
- Weather resistant.
- Recyclable.

New Product # WH51 offers same features as WM51 and now available in additional gauges- .472", .708", .944". Thinner gauges emit same 22% light transmission.



LUCITELUX® Spectrum Block offers an alternative to traditionally constructed letters. Sign makers can embed lighting source or place light source at rear. The result is chunky, stylish, one-piece letters with an optimized, even light transmission to maximize environmental and economic benefits of LED technology.

Sheet size: 59" X 78.75" X 1.18" (30MM)

Product Number: LuciteLux® Opal 1T77

- Optimized light transmission to maximize economic and environmental benefits of LED technology.



Black & White Acrylic

ACRYLITE® LED color changing back lit sheet

appears dark by day and with a little backlighting, it glows white at night! It's manufactured from a special pigment formulation that yields 25 percent light transmittance when backlit, but appears dark and opaque without backlighting.

New Color # 9K004. Old Color # 1124-0.

Standard Sizes 1/8" and 3/16" x 48" x 96"



AR: Abrasion Resistant Sheet



Abrasion Resistant Sheet is 40 times more resistant to marring and scratching than uncoated acrylic sheet. It features excellent chemical resistance and withstands many household and commercial glass cleaners. Abrasion Resistant Sheet's rugged surface makes it a splendid choice for high traffic areas. Kiosks and other interactive medium with heavy public contact are ideal applications. AR sheet is also a great product for use outdoors as it is virtually unaffected by sunlight, humidity and the elements.

ACRYLITE® Optical mar resistant sheet (MR1 or MR2)

Available with coating on 1 side or 2 sides. 1 side coated is required when building boxes as solvent cement will not adhere to coated side. Standard thicknesses range from .060" to 1". Standard Sheet sizes 48" x 96", 60" x 96", 72" x 96" and custom sizes up to 72" x 120".

Ultraviolet Transmitting Sheet

Provides increased transmission of ultraviolet wavelengths between 280 and 360 nanometers. Useful for Scientific applications. Popular Brand Names are OP-1 and UVT.

Comfortable to the touch and easy to clean with water and mild detergent. Transmits 70 percent or more of the available UV light in 340 nanometer range. Limited Warranty Applies. Popular Brand Names are OP-4 and SUVT.

The most popular application is tanning beds.





Acrylic for direct digital printing

ACRYLITE® digital print, manufactured by Evonik, is a crystal clear acrylic sheet that has enhanced adhesion properties for UV curable inks used in today's flatbed digital printers. ACRYLITE® digital print eliminates the need for costly adhesion promoters or other labor intensive surface preparation.

48" X 96" sheets in stock at E & T Plastics. Standard gauges .118", .177" and .220".
Product number: OM007

Now available: ACRYLITE® digital print non-glare P-99.
Product number: OM007 AR

OPTIX® DA - Digital Acrylic is manufactured by Plaskolite and specifically designed to provide optimal adhesion of UV curing inks without adhesion promoters. OPTIX® DA delivers all the benefits of continuously processed acrylic sheet in a specially formulated product for printing. Just as with OPTIX sheet, OPTIX® DA provides superior strength and is available in a variety of sizes and thicknesses.

OPTIX® DA NON GLARE- Digital Acrylic
Same enhanced adhesion on gloss side as Optix® DA. Opposite side has non-glare surface for enhanced viewing.

Both Optix® grades are available from E&T Plastics
48" X 96" sheets in stock at E & T Plastics in .118", .177" and .220".

Mirror Selection Guide

FABBACK® mirrored acrylic sheet features the industry's toughest protective back-coating. The durability of this sheet makes it virtually scratch-resistant during fabrication. All mirror acrylic sheet is produced with a 1" overage on length and width.

FABBACK® Clear Acrylic Mirror

Made from Optix® continuously processed acrylic sheet, with the industry's toughest protective back-coating, this sheet is virtually scratch-resistant during fabrication. Vacuum metallizing with aluminum provides a superior reflecting surface.

- E & T Plastics stocks sizes 48" x 96", 60" x 96", 72" x 96" and 48" x 120".
- Available to 80" x 120"
- Available in .060" to .236" thicknesses

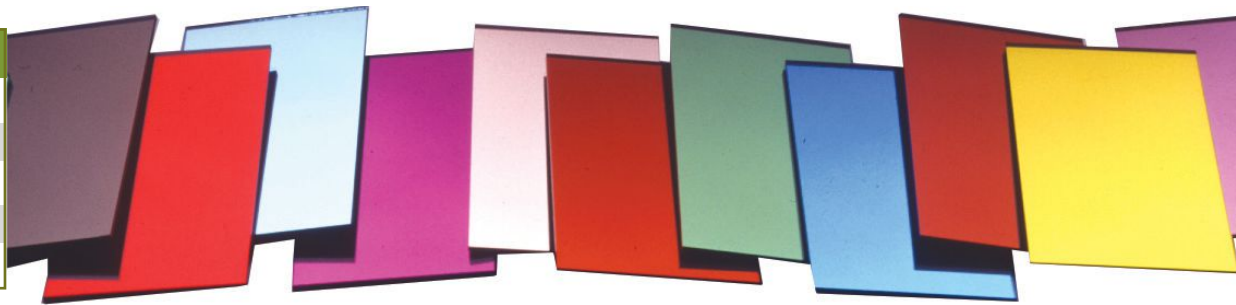
First Surface Mirror

Two-sided mirror which reflects incident light in either direction. The dual surface reflection is ideal for applications where the back of the mirror remains exposed, or where a reflection in both directions is desired.

- Available in 48" x 96" sheet
- Available in .118" and .236" thicknesses
- Available in color
- Available in acrylic or polycarbonate
- Custom sizes and thicknesses also available

FABBACK®

Acrylic Mirror	
Gauge	Weight
1/16"	0.35 lb/Sf
1/8"	0.66 lb/Sf
3/16"	1.00 lb/Sf
1/4"	1.32 lb/Sf



See-Thru Mirror

Also called two-way mirror. A semi-transparent aluminum film deposited on the substrate allows a percentage of incidental light to pass through while reflecting the remainder. From the illuminated side, it's a mirror. From the darkened side, it's transparent. Used for monitoring and surveillance operations.

- Available in 48" x 96" sheet
- Available in .118" and .236" thicknesses
- Available in color
- Available in acrylic or polycarbonate
- Custom sizes and thicknesses also available



Anti-Fog Mirror

The anti-fog coating is applied to high quality FABBACK® acrylic mirror and polycarbonate mirror in a Class 10 certified clean room. Anti-Fog mirror is engineered to withstand fogging under the toughest conditions. Commonly used in shaving/shower mirrors, dental mirrors, and sauna, health club applications.

PETG Mirror

Combines versatile fabrication properties with good impact strength, good design flexibility and speed of fabrication. Thinner-gauge sheet is ideal for children's toys, cosmetic uses and office supplies.

- Available in 48" x 96" sheet
- Available in .030" to .118" thicknesses
- Supplied with polyfilm or papermask

Polycarbonate Mirror

Offers excellent strength, security and flame resistance.

- Available in 48" x 96" sheet
- Available in .118" and .236" thicknesses
- See-Thru sheet and First Surface sheet available
- Armadillo scratch-resistant coating available
- 2404 Bronze and 2064 Gray available in .118"
- Supplied with two-sided papermask

Protective Backings

Permanent vinyl backing, pressure-sensitive adhesive backing, and papermask.

- Mirror sheet can be ordered with custom backings.





Marine Grade Mirror

Marine Grade is a high quality, premium grade of FABBACK® acrylic mirror sheet. Double-inspected throughout the manufacturing process to ensure maximum quality. Popular in boat/yacht cabin areas.

- Available in 48" x 96"
- Available in .118" to .236" thicknesses
- Custom sizes and thickness also available
- Armadillo scratch-resistant coating available

Aircraft Grade is a high quality, abrasion resistant poly carbonate mirror, specifically engineered for use in demanding aircraft applications. It is crack and shatter resistant, and will not support continuous combustion, making it ideal for use in commercial aircraft lavatories.

- Meets FAR 25.853(a) flame retardant requirements
- Available in 48" x 96"
- Available in .030" to .118" thicknesses
- Custom sizes and thickness also available



1000 Blue	1020 Purple	1119 Orange	2423 Red	2414 Green	4674 Green
2208 Yellow	2069 Blue	1050 Gray	1300 Gold	2404 Bronze	1450 Pink
2422 Amber	2424 Blue	2064 Gray	1310 Red	1400 Red	1600 Bronze
2120 Teal	Clear Extruded	PETG	Polycarbonate	1st Surface	See-Thru
Non-Glare	AR-2 Acrylic	AR-1 Extruded Acrylic	A-81 Stipple	PL-21 Prismatic	

Textures:

- Non-glare
- Stipple
- Prismatic

Bullet Resistant Acrylic Sheet

Security glazing. BR sheet is listed as Level 1 BR in accordance with UL standard 752. This 1.25" barrier is ideal for banks, security booths, embassies, and currency exchange stations where more protection is required.

Code ratings and Standards:

Meets the test requirements of Building Code class CC2, ANS, Z97.1-Safety Glazing Material, ANS, Z26.1-Motor Vehicle Safety Glazing Material, Dade County Approval, Federal Specification L-P-391D+
ASTM D 4802.

Maximum Continuous Service

Temperature: 170° F

Minimum Continuous Service Temperature:

-26° F (lowest temperature tested for bullet-resistance)

Ballistic Protection: Value: 9mm

Test Method: UL 752

Level 1: Available General Purpose.

Brand Names: Polycast MP 1.25

Abrasion Resistant:

Polycast SAR MP 1.25

Rated level 1 per UL 752. Sheet Size: 1.25" thick, weighs 7.7 Lbs./Sf., and can stop a 9mm, 38 automatic or any handgun with a muzzle energy of 380-460 foot-pounds.

Level 2: 1.375" Thick

Standard with abrasion resistant coating.

Brand name Polycast HP 1.25

Rated level 2 per UL 752 sheet

Measures 1.375" Thick and weighs 8.5 Lbs./Sf. HP 1.25 can stop a .357 Magnum and others with a muzzle energy of 548 to 663 Foot pounds.

Level 3: 1.25" Thick

Rated level 3 per UL 752. Measures 1.25" thick and weighs 7.7 Lbs./Sf. SP 1.25 is a proprietary laminated product and can protect against virtually all handguns including .44 magnum.



BULLET RESISTANT SHEET

Standard Product Offering

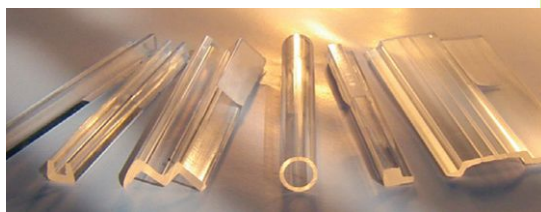
	Thickness	Sizes [mm]	Sizes [In.]	Color
Polycast MP	1.250"	49 x 97"	48" x 96"	Colorless
UL 752-Level 1		61 x 97"	60" x 96"	
		73 x 97"	72" x 96"	
Polycast HP	1.375"	49 x 97"	48" x 96"	Colorless
UL 752-Level 2		61 x 97"	60" x 96"	
		73 x 97"	72" x 96"	
Polycast SP125	1.250"	49 x 97"	48" x 96"	Colorless
abrasion resistant		61 x 97"	60" x 96"	
UL 752-Level 1		73 x 97"	72" x 96"	
POLYCAST SAR SP	1.25	48 x 96"		Colorless
UL Level 3				

Some sheets have overage 1" on width and 1" on length which results in 1 extra square foot per 48" x 96" sheet.

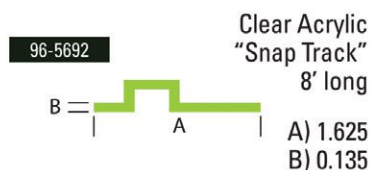
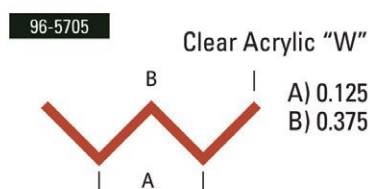
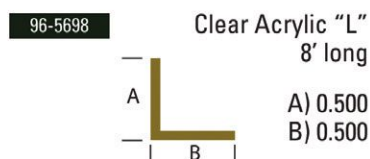
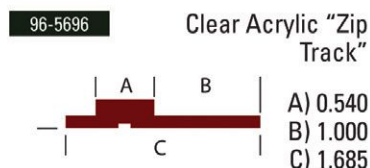
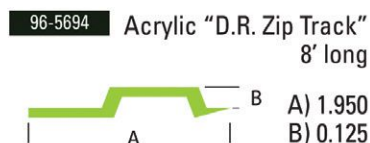
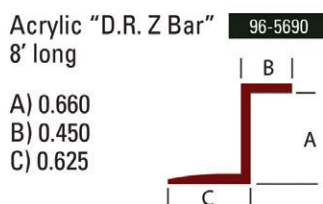
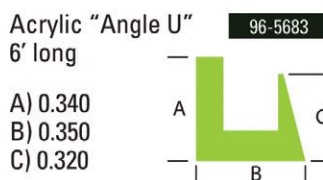
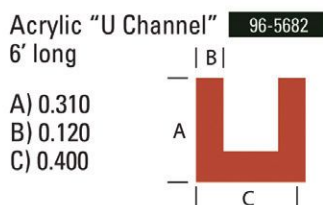
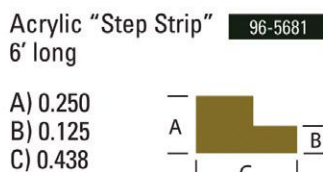
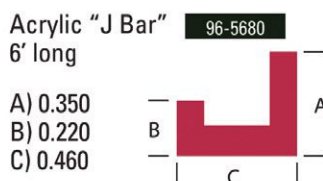
Acrylic Profiles



Plastifab's Tecacryl™ acrylic is manufactured using the latest proven extrusion process. With excellent resistance to weathering, Tecacryl rods, tubes and profiles are ideally suited for a wide variety of commercial, industrial and decorative applications.



The wide range of colors available in Tecacryl allows the designer great flexibility in creating unique geometries and shapes for kitchen, office, bathroom, POP, store fixtures, architectural markets and many more.



*DR= Impact Modified Acrylic

Plastifab

Acrylic Standard Stock Shapes

CLEAR AND COLOURED ACRYLIC TUBES			
ID	OD	WALL	PCS/BOX
1/8"	1/4"	1/16"	125
1/8"	3/8"	1/8"	50
3/16"	5/16"	1/16"	80
3/16"	1/2"	5/32"	30
1/4"	3/8"	1/16"	50
1/4"	1/2"	1/8"	30
3/8"	1/2"	1/16"	30
3/8"	5/8"	1/8"	20
1/2"	5/8"	1/16"	20
1/2"	3/4"	1/8"	45
5/8"	3/4"	1/16"	15
5/8"	7/8"	1/8"	30
3/4"	7/8"	1/16"	30
3/4"	1"	1/8"	30
7/8"	1"	1/16"	30
1"	1-1/4"	1/8"	20
1-1/8"	1-1/4"	1/16"	20
1-1/8"	1-3/8"	1/8"	15
1-1/4"	1-1/2"	1/8"	12
1-3/8"	1-5/8"	1/8"	23
1-1/2"	1-3/4"	1/8"	20
1-3/4"	2"	1/8"	16
2"	2-1/4"	1/8"	12
2-1/4"	2-1/2"	1/8"	9
2-1/2"	2-3/4"	1/8"	8
2-3/4"	3"	1/8"	6
3"	3-1/4"	1/8"	5
3-1/4"	3-1/2"	1/8"	4
3-1/2"	3-3/4"	1/8"	4
3-3/4"	4"	1/8"	4
4"	4-1/4"	1/8"	5
4-1/4"	4-1/2"	1/8"	4
4-1/2"	4-3/4"	1/8"	4
4-3/4"	5"	1/8"	4
5-1/4"	5-1/2"	1/8"	4
5-3/4"	6"	1/8"	4
6"	6-1/2"	1/8"	1
6-3/4"	7"	1/8"	1
7"	7-1/4"	1/8"	1
7-1/4"	7-1/2"	1/8"	1
7-3/4"	8"	1/8"	1
9-3/4"	10"	1/8"	1
11-3/4"	12"	1/8"	1
Standard Length 72"			

CLEAR AND COLOURED ACRYLIC RODS	
OD	PIECES / BOX
1/16"	800
1/8"	220
3/16"	200
1/4"	125
5/16"	80
3/8"	60
7/16"	35
1/2"	35
9/16"	25
5/8"	20
3/4"	15
7/8"	10
1"	9
1-1/8"	6
1-1/4"	5
1-3/8"	4
1-1/2"	4
1-3/4"	1
2"	1
Standard Length 72"	

CLEAR ACRYLIC HALF ROUND RODS	
DIAMETER	PIECES / BOX
1/2"	60
5/8"	40
3/4"	30
1"	18
Standard Length 72"	

CLEAR SQUARE ACRYLIC RODS	
SIZE	PIECES / BOX
1/8"	200
3/16"	175
1/4"	100
5/16"	70
3/8"	40
1/2"	36
5/8"	20
3/4"	15
7/8"	9
1"	9
Standard Length 72"	

CLEAR RECTANGULAR ACRYLIC STRIPS		
THICKNESS (A)	WIDTH (B)	PIECES/BOX
1/8"	3/8"	120
1/4"	3/8"	60
1/8"	5/8"	80
1/4"	1/2"	60
3/16"	3/4"	50
1/4"	1"	25
3/4"	1"	10
Standard Length 72"		

CLEAR ACRYLIC TRIANGULAR ROD	
SIZE	PIECES / BOX
1/8"	600
1/4"	150
3/8"	70
1/2"	50
5/8"	30
3/4"	24
1"	12
Standard Length 72"	

CLEAR ACRYLIC SQUARE TUBE		
INSIDE	OUTSIDE	PIECES/BOX
1/4"	3/8"	50
3/8"	1/2"	30
1/2"	5/8"	16
5/8"	3/4"	12
7/8"	1"	25
Standard Length 72"		

AVAILABLE COLOURS	
	White-Blanc 2447
	Blue-Bleu 668 TL
	Purple-Pourpre 713 TL
	Green-Vert 545 TL
	Red-Rouge 257 TL
	Amber- Ambre 436 TL
	Smoke-Fumé 131 TL
	Orange 3127 FL
	Blue-Bleu 615 FL
	Purple-Pourpre 718 FL
	Green-Vert 5143 FL
	Yellow-Jaune 407 FL
	White-Blanc - Opaque 7328
	Black-Noir 2025

Plastifab

Utilizing the highest quality raw materials, **Tecacryl™** extruded acrylic shapes offer extraordinary transparency, colour fastness, exceptional durability, good mechanical strength and outstanding weatherability. The combination of shape, colours and patterns challenge the limits of design and creativity.

Cast Acrylic Tubing

- Small minimum order quantities
- Exceptional optics

CAST ACRYLIC TUBING, CLEAR POLISHED											
WEIGHT IN LB./FT											
O.D.	.125	.187	.250	.375	.500	O.D.	.125	.187	.250	.375	.500
1.250	.215	.306	.378	-	-	5.750	1.134	1.683	2.219	3.253	4.235
1.500	.277	.397	.504	-	-	6.000	1.184	1.759	2.319	3.403	4.437
1.625	.303	.435	.555	-		6.093	1.204	1.786	2.357	3.459	4.513
1.750	.328	.473	.605	-		6.250	1.255	1.831	2.388	3.583	4.677
1.875	.355	.489	.630	-		6.500	1.286	1.910	2.522	3.706	4.841
2.000	.378	.548	.706	.889	1.075	6.750	1.347	1.963	2.575	3.864	5.077
2.250	.429	.624	.807	1.060	1.353	7.000	1.386	2.060	2.722	4.008	5.244
2.375	.453	.662	.857	1.145	1.431	7.250	1.452	2.115	2.800	4.047	5.395
2.500	.479	.699	.908	1.233	1.499	7.500	1.488	2.214	2.925	4.311	5.647
2.625	.483	.703	.950	1.297	1.635	7.625	1.502	2.234	2.950	4.359	5.730
2.750	.529	.775	1.008	1.437	1.703	8.000	1.588	2.364	3.125	4.613	6.051
2.875	.545	.813	1.059	1.513	1.806	8.250	1.639	2.440	3.227	4.765	6.252
3.000	.580	.851	1.109	1.588	1.932	8.500	1.689	2.515	3.329	4.916	6.454
3.125	.605	.889	1.168	1.664	2.030	8.750	1.739	2.591	3.445	5.068	6.656
3.250	.630	.926	1.210	1.740	2.126	9.000	1.789	2.659	3.529	5.218	6.857
3.375	.655	.964	1.260	1.815	2.223	9.125	1.800	2.705	3.560	5.280	6.902
3.500	.681	1.002	1.311	1.891	2.420	9.250	1.841	2.743	3.360	5.370	7.059
3.625	.705	1.039	1.362	1.967	2.520	9.500	1.891	2.819	3.732	5.505	7.261
3.750	.731	1.078	1.412	2.043	2.622	10.000	1.989	2.969	3.932	5.823	7.661
3.875	.757	1.115	1.462	2.119	2.724	10.500	2.090	3.120	4.134	6.125	8.201
4.000	.781	1.154	1.512	2.193	2.824	10.625	2.140	3.186	4.152	6.155	8.402
4.125	.807	1.191	1.564	2.269	2.925	11.000	2.193	3.271	4.336	6.428	8.741
4.250	.833	1.230	1.614	2.344	3.025	11.500	2.294	3.424	4.539	6.732	8.874
4.375	.860	1.275	1.664	2.420	3.125	11.750	2.398	3.499	4.641	6.882	9.074
4.500	.883	1.305	1.715	2.496	3.227	12.000	2.394	3.574	4.739	7.033	9.278
4.625	.908	1.342	1.765	2.572	3.329	13.625	2.628	3.924	5.207	7.718	10.15
4.750	.933	1.381	1.815	2.648	3.429	14.000	2.807	4.235	5.550	8.245	10.89
4.875	.957	1.417	1.865	2.722	3.529	15.000	3.001	4.485	5.953	8.858	11.70
5.000	.983	1.455	1.915	2.798	3.630	16.000	3.187	4.600	6.221	9.077	12.02
5.250	1.034	1.533	2.017	2.950	3.832	18.000	3.619	5.201	7.026	10.21	13.89
5.500	1.084	1.609	2.092	3.101	4.033	24.000	4.657	7.126	9.395	13.70	18.46
5.625	1.108	1.644	2.168	3.177	4.134	27.625	5.383	7.836	10.59	16.01	22.60
Standard length - 72". Cut lengths on request. Custom Extensions Available											

Ask about solid cast acrylic rod!

Expanded or Foamed PVC

E&T Plastics is pleased to promote Expanded PVC from multiple high quality domestic sources. We offer items from Kommerling, Palram and Vycom. It's hard to rely on a single source, as we cater to many different customers in different regions. We are committed to keeping the appropriate product mix for you. We represent the best brands.

Expanded or Foamed PVC is a high quality substrate at a very reasonable rate. The product is a plastic alternative to paper and wood. It features a closed-cell matte finish surface. It is light weight, easy to fabricate, available in thicknesses from 1MM-25MM and many sheet sizes. Further it is resistant to chemicals, corrosion and moisture and exhibits low flammability characteristics [UL-94 VO].

Expanded PVC is a durable and rigid product with a core that is slightly less dense than its outer layers. The product is available in white, black and colors where color is uniform throughout the sheet.

Polyvinylchloride or PVC is the polymer used to make these sheets. PVC is one of the oldest and most developed synthetic materials. You can expect durability, resistance to chemicals and water and overall toughness. Over time the product continues to evolve and with improvements new applications are evident. What was once used for commercial signage is now used for digital print, display, sign and construction products.

WEIGHT CHART		
1 mm	48 x 96	5 lbs
2 mm	48 x 96	10 lbs
3 mm	48 x 96	15 lbs
4.5 mm	48 x 96	22.5 lbs
6 mm	48 x 96	30 lbs
9 mm	48 x 96	45 lbs
12 mm	48 x 96	60 lbs
12.7 mm	48 x 96	63 lbs
19MM	48x96	90 lbs
25MM	48x96	126 lbs



Standard Thicknesses:

1mm, 2mm, 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 10mm, 13mm, 19mm, 25mm.

Standard Colors

White, black, gray, light gray, red, beige, blue, green, yellow.

Standard Sizes:

48" x 96"
48" x 120"
60" x 96"*
60" x 120"*

*3mm & 6mm, white & black

Other sizes, colors, custom runs & cut to size on request
Other brands available; Palight®, Komatex®, Ex-Cel®, Sintra®, Foamalux®



KOMATEX
printing, lacquering, filming.

Expanded PVC for printing:

- Easy to Clean
- Available with protective film for applications like digital printing
- Excellent adhesion for ink, paint or tapes
- Good white points
- Available in colors
- Lightweight
- Easy to machine or cut

Expanded PVC for Construction:

- Superior Weatherability
- Water Resistant
- Durable
- Rigid
- Inexpensive
- Wood Replacement
- Easy to paint or wrap
- Great product for cabinet toe kicks
- Excellent seat back in boats where wet environment destroys wood.
- Partitions and cabinets in trucks and ambulances.



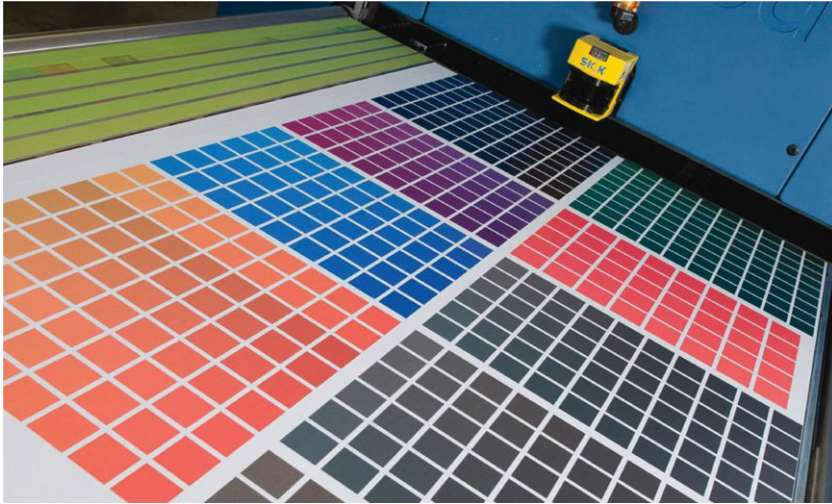
Features:

- Lightweight
- UL 1975 classified*
- Low thermal conductivity
- Superior weatherability
- Water resistant
- High insulation and sound absorption characteristics
- FDA Approved (Incidental contact)
- Excellent thermal properties
- High overall fire retardancy
- UL-94V-0 Vertical burn rate*
- Lead and cadmium-free
- High structural strength
- Cleanable
- Good color retention

Applications:

- | | |
|----------------------------|---------------------|
| • Indoor & Outdoor Signage | • Exhibits |
| • Gameboards | • Enclosures |
| • Displays | • Shelving |
| • Merchandising | • Models |
| • Trade Show Dividers | • Art |
| • POP's | • Prototypes |
| • Stage Sets | • Furniture |
| • Wall Maps | • Building Products |
| • Photo Mountings | |
| • Hangables | |

Celtec Ultra White



This advanced PVC formulation is designed specifically for outdoor applications where resistance to ultraviolet (UV) degradation and impact strength are critical. Performance tests indicate that **ULTRA WHITE®** is up to eight times more resistant to UV damage and is both digital and screen printable. This product is a monolithic (solid) sheet with a gloss surface.

Advantages:

- Superior UV performance
- Excellent Impact properties
- Brightest White
- High Gloss Finish

Thickness/Sheet Size

2MM, 3MM, 6MM
48" X 96"

KOMACEL®
painting. laminating. cladding.

[Similar to Komatex, but
with a gloss surface.]

Rigid Foam PVC Sheet

KOMACEL®, is an expanded PVC sheet with a solid gloss surface. It is suitable for both graphic and industrial applications. The smooth outer skin makes the product ideal for screen printing, painting and applying vinyl. Its solid surface enhances weatherability for superior outdoor performance. It's foamed core reduces the weight and keeps cost at a discount compared to monolithic PVC sheet. **KOMACEL®** has been used for both interior and exterior applications

for more than 30 years.

Thickness/Sheet Size

4MM (5/32), 5MM (3/16), 6MM (1/4"), 10MM (3/8"), 13MM (1/2"), 19MM (3/4"), 24MM (1"), 30MM (1-3/16") *

*Standard measurements are approximate.

Available in: 13, 16, & 19mm, 4 x 8.
[4x10. 25mm will be available soon.]





Multi-Layer PVC Sheet

PALBOARD® combines the extra tough surface quality of solid PVC with the lightweight, easy to work with characteristics of foam PVC. Its black core is made with high quality recycled foam PVC, and the panel itself is recyclable, too.

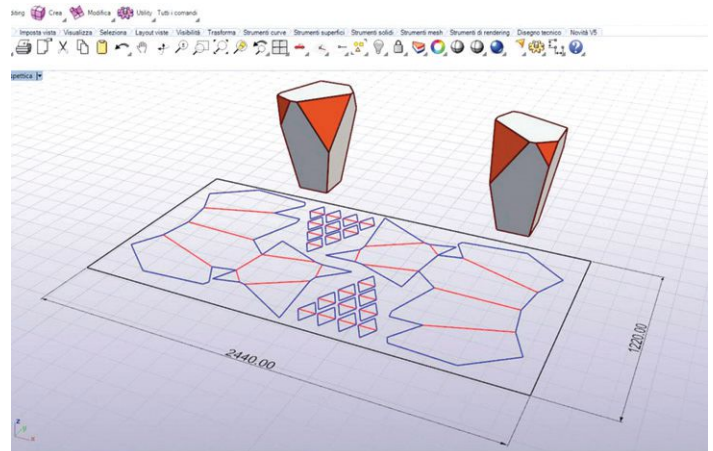
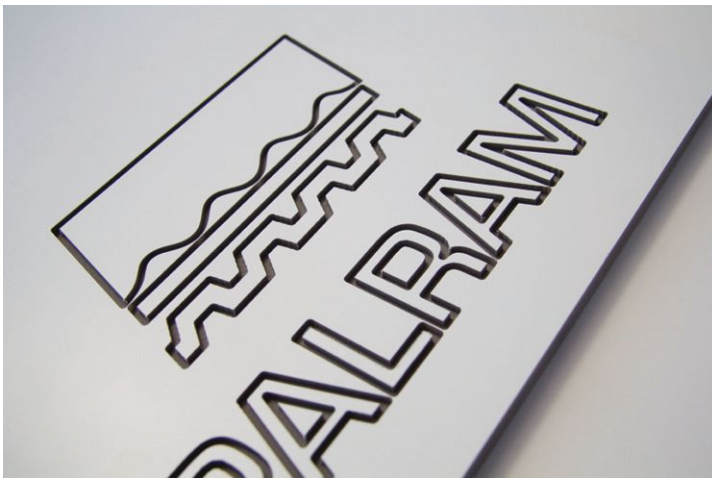
PALBOARD®



PALBOARD® Has an ultra-smooth surface that offers excellent ink-adhesion for digital or traditional printing applications. It's easy to fabricate, can be cold-bent with a V-groove cut, and offers good mechanical strength and excellent chemical resistance. It is ideal for interior sign, display and more.

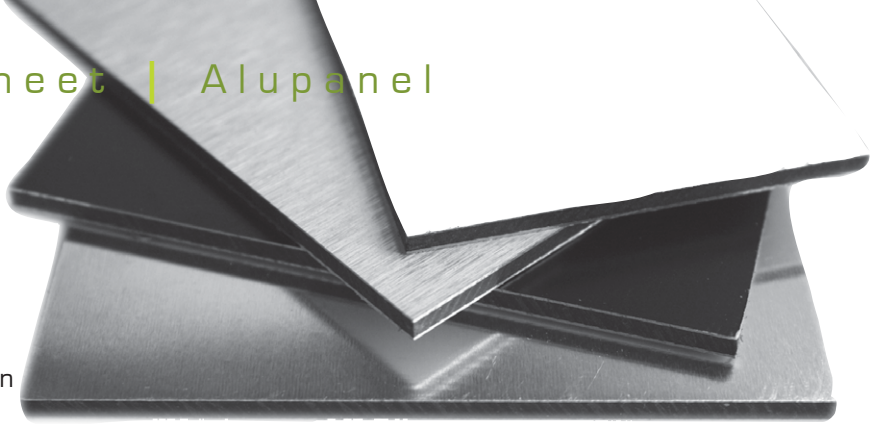
Standard Sheet Size is 48" X 96".

Standard Thicknesses are 3mm, 5mm, 10mm, 12mm.



Aluminum Composite Panel

Aluminum Composite Panel also known as ACP and ACM is a dynamic material that is gaining popularity in POP and sign markets. It's rigid, durable, lightweight and aesthetically pleasing. The "composite" part in Aluminum Composite Panel infers that multiple items are combined to make this versatile material. ACP is 2 pieces of aluminum that are clad to a polyethylene core. The aluminum outer layers are coated with a durable polyester paint. The product offering includes multiple grades and features. The grades are defined by the thickness of the metal surface, the type of metal used and the coating applied to the metal surface.



Additional Colors Available:

White, Black, Brushed Aluminum, Digital White. Sheet sizes up to 78" x 120" in stock.

SHEET SIZES

Color	Gauge	Size
White/Mill	3MM	4' x 8'
White/White	4MM	4' x 8'
White/White	6MM	4' x 8'
White/White	3MM	4' x 8', 5' x 10', 6.5' x 10'
White/Black	3MM	4' x 8'
Black/Black	3MM	4' x 8'
Brushed Aluminum/Gray	3MM	4' x 8', 5' x 10'
Gold/Mirror/Gray	3MM	4' x 8', 48" x 120"
Gloss White/Black	3MM	4' x 8'
Brushed Gold/ Brushed Copper	3MM	4' x 8'
White/White	4MM	4' x 8'

GRADES:

Economy: Economy grade is the least expensive grade, and is ideal for flat surfaces. Primary applications are direct print, rugged signs where vinyl is applied and more. This is a popular choice for menu boards. Metal surface of .006" can be cut with a saw and may tear if routed or bent. Great choice where high performance is needed and low cost is desired.



Lite: Acceptable for most applications. .008" thick aluminum surfaces surround a durable 3MM polyethylene core. Can be routed for simple patterns with good results. Can be scored and bent for simple patterns too. Lite is popular where sheet will have moderate machining and opportunity is price sensitive. E&T carries this item in brushed aluminum, white, black and sizes up to 78" X 120".



Specialty

Extra durable metal coating that is .012" thick surrounds a durable polyethylene core. Specialty grade allows for complex fabricating with great results. Product can be scored on reverse side and bent. It can also withstand intricate routing patterns. Further advantages include maximum rigidity, strength and dynamic colors. We feature Mirror-ized sheet and brushed metals. Specialty grade is priced a little higher but worth it for more demanding clients and applications.



Ecopanel
Kofala



Alupanel Whiteboard

Digital

Ideal for direct digital print. Digital grade provides optimal ink adhesion.

Color options include white, black and brushed aluminum. Sizes from 48" x 96" to 78" x 120".

Digital grade available in both Lite and Economy grades. Also known as A-LITE.



Applications

- Exhibition stands
- Trade fairs
- Supermarkets
- Shop windows
- Partiton elements
- Displays
- Signage
- Photograph lamination
- Pylons
- Interior Designs

Alupanel Multishield

double-sided composite panel offering greater strength and rigidity. Multishield features galvanized steel on both surfaces. Galvanized steel is receptive to magnetic media for a multitude of uses. Now available with 2 finishes- digital/digital or digital/whiteboard. Metal thickness .010" (.25MM), sheets are 48" x 96" and thicknesses of 3MM and 6MM.





General Purpose

VIVAK® PETG SHEET

VIVAK WEIGHT LBS./SF

Wt. Factor 6.67

Thickness	Vivak
0.020	0.134
0.025	0.167
0.030	0.201
0.040	0.267
0.050	0.334
0.060	0.401
0.070	0.467
0.080	0.5
0.090	0.601
0.093	0.621
0.100	0.667
0.118	0.788
0.125	0.834
0.150	1.001
0.156	1.041
0.177	1.181
0.187	1.248
0.220	1.468
0.236	1.575
0.250	1.668
0.375	2.501
0.500	3.335

VIVAK® is the best known trade name for PETG sheet. It is a clear material with great impact strength. This contributes to its' continued growth as a cost effective fabrication and sign material.

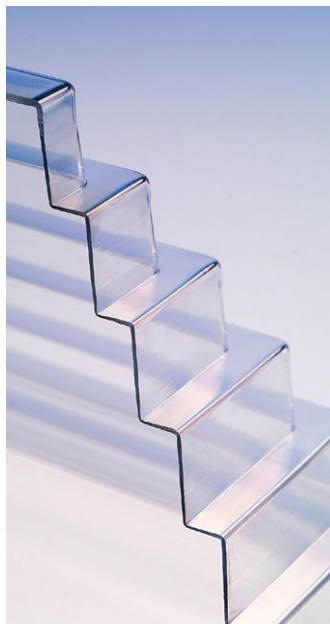
- Can be thermoformed, strip heated and bent, or brake formed
- Can be die cut, drilled, milled and routed
- Can be hot stamped, silk screened, or painted
- Good impact strength means less breakage in shipment & use
- Low temperature forming (250°- 300°F) means fast cycle times
- Continuous use temperature of 145°F

Vivak is available from .020 through .500 in thickness.

It has limited UV resistance and is primarily an indoor material.



Colored PETG is available as a special order



VIVAK® UV

came on the market in 1992 as the world's first UV-stabilized thermoplastic-polyester sheet. Thanks to this innovation, the superior deep-drawing properties of Vivak® sheets can be taken advantage of even for external applications with the same versatile processing options and long-term quality.

Special Advantages: high resistance to weathering and excellent durability thanks to UV-coating 10-year warranty on impact resistance, transparency, and light-permeability

Applications:

- Roofing material for bus stops and bicycle stands
- Bridges and similar
- Municipal furniture
- Outdoor signs and displays
- Advertising pillars and vending machines
- Creatively designed mega-sculptures

Available in: clear, white translucent

VIVAK® Satin

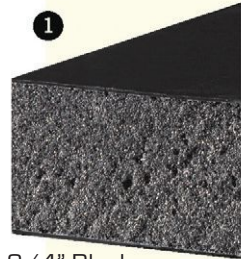
Vivak Satin is a translucent copolyester sheet with a satin texture on one side. This product offers improved toughness versus acrylic, reduced gloss and enhanced scratch resistance on textured side.

Available in thicknesses .060" thru .236". Standard sheets size 48" x 96"

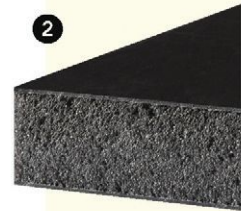




Outlasts, Outperforms all others



3/4" Black



1/2" Black



3/4" White



1/2" White



ULTRA BOARD is a heavy-duty, all-plastic panel that features a litho-grade, high-impact polystyrene surface perfect for screen printing and digital printing. It is ideal for permanent displays and signs.

Ultra Board is designed primarily for interior use and is favored for its durability. The dent-resistant styrene liners are secured to the foam center with a remarkable bond that keeps the panel flat and rigid.

Standard sheet sizes are: 48" x 96", 60" x 96" and 60" x 120" in 3/16" up to 3" thickness Custom-cut and custom-run sizes are also available up to 60" x 120".



Photos & Graphics love this board

ULTRA MOUNT performs with all the surface quality and rigidity of higher priced foam boards, and is available in a variety of plain and adhesive surfaces.

Original Ultra Mount is a favorite for framed art and photos and is often used for in-store decor and exhibits. It is a heavy-duty board with 18-pt poly-coated paper liners perfect for laminating, dry mounting, cold mounting, screen printing, paints or vinyl.

Ultra Mount also comes in Peel N' Stick and Heat N' Stick with high tack pressure sensitive adhesive and heat activated adhesive.

Original Ultra Mount comes in white or black in thicknesses from 3/16" to 3". The standard sheet size is 48" x 96" and is also available in custom-cut and custom-run sizes up to 48" x 120".

ULTRA BOARD is a thermoplastic material, which means it can be melted and reused into the manufacture of new extruded polystyrene products. Once the end of life of the original application of ULTRABOARD is reached, the material can be reused.

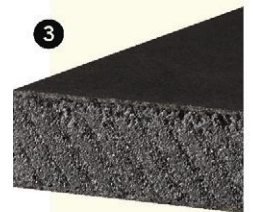
Contact United Industries, for questions about how to participate in the recycling program: 479-273-2924 or 800-441-3731.



1/2" White



3/4" White



1/2" Black



3/4" Black

Thermoplastics

ABS is a versatile thermoplastic. It is a terpolymer that combines acrylonitrile, butadiene and styrene. Its' versatility is exhibited when it is easily combined with additives to give it different levels of impact strength, heat resistance and flame retarding properties. Overall ABS offers a good balance of tensile strength, abrasion resistance, dimensional stability, chemical resistance and surface hardness. ABS is available in a general purpose grade or machining grade. Machine grade available in plates or rods.

At E&T Plastics we carry a general purpose grade that is unmasked and has haircell texture on 1 side. Stock colors are black and white and we stock 48" X 96" in gauges from .060" - .375".



Alternate colors,
grades, textures and
sizes are available
upon request.
Minimums may apply.

ABS WEIGHT CHART

Color	Gauge	Size
thickness	size	weight
1/16"	48" X 96"	11.15
1/8"	48" X 96"	22.45
1/4"	48" X 96"	42.41



Corrugated Sheet

This is a corrugated sheet that offers excellent rigidity due to the ribs. It is treated to make it ink receptive and represents a very low cost option for both indoor and outdoor signs. It is one of the lightest in weight and water resistant. It is also used for tote boxes and packaging.

Standard size - 4mm x 48 x 96.

Other thicknesses - 2mm, 3mm, 5mm, 6mm, 8mm, 10mm.

Colors available - White, Ivory, Yellow, Blue, Brown, Black, Orange, Green, Silver, Natural (Clear).

48x96	lbs per sheet
2mm	2.95
3mm	3.93
4mm	5.08
5mm	6.55
6mm	9.17
7mm	11.14
8mm	11.81
10mm	13.12

Cellulose Acetate Butyrate (Cab) Sheet

Cellulose Acetate Butyrate used to be known as Uvex®. It is a high impact material that has deep draw thermoforming capabilities. It is available in clear and many transparent and translucent colors. It has been used for formed letters for signs, for sign faces, face shields, and snowmobile windshields. It is also available in clear tubes which can be capped and used for shipping and display.

CAB SHEET WEIGHT

Clear & Colors					
Gauge	Lb./SF	Gauge	Lb./SF	Gauge	Lb./SF
.030	.187	.100	.624	.187	1.17
.060	.374	.125	.780	.250	1.56
.080	.499	.150	.936		

Clear & Colors

Standard sheet size - 50" x 76" and 50" x 100".
Other sheet sizes up to 76" x 124" available.
Call for cut to size.

High Impact Polystyrene

HIPS is a versatile material. It can be silkscreened, die cut, thermoformed, and is inexpensive. It is most common in white with a matte finish on both sides. This makes it ideal for signs. It is available in thin gauges (.010 through .250). It is stocked as 40" x 72" and 48" x 96" sheet size, but is available run to size in relatively small quantities. Custom colors are also available in smaller runs. It has a low thermoforming temperature allowing for quick cycle times. It is also water resistant.

Standard size - 40" x 72" and 48" x 96".

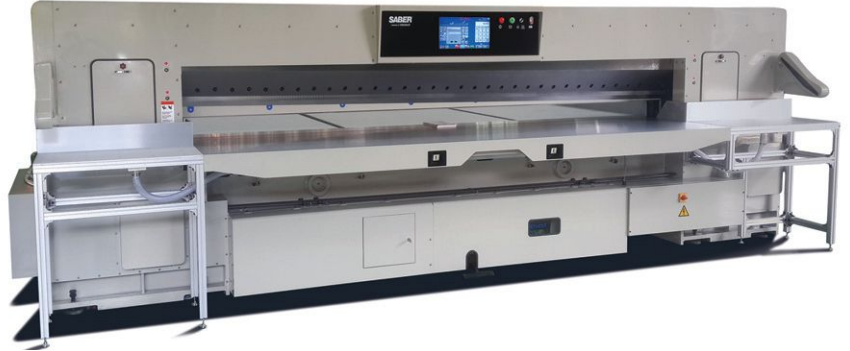
Run to size, custom colors.

Tolerance - Thickness +/- 10%.

48x96	lbs per sheet
2mm	14.15
3mm	22.93
4mm	28.30
5mm	37.06
6mm	45.83
7mm	51.20
8mm	56.57
10mm	70.72

Polycarbonate Film

Polycarbonate film for the graphic arts industry offers a very tough, dimensionally stable material. It can be silk screened, die cut, and fabricated. Due to the high temperature performance of polycarbonate, inks can be dried faster at a higher temperature. Labels can be made for high heat applications. Polycarbonate also has very good electrical properties and an inherent toughness which makes it an excellent choice for membrane switches or thin insulators. Polycarbonate films come in a variety of surface finishes including polished, matte, suede, and velvet. The surfaces can be coated for anti-scratch and/or anti-fog applications.



Acetate

Clear cellulose acetate is available both cast and extruded. Cast acetate offers superior optics which makes it a good choice for gauge and dial covers. Extruded acetate is more economical and good for pattern making and layouts. Both can be scored and snapped to intricate designs. This is good for model making or prototypes. It can be die cut, printed and thermoformed. Cellulose acetate propionate is a food grade and used for candy molds.



Thicknesses Available:

.010 .020 .040 .060 .015 .030 .050



Rigid Vinyl

Rigid vinyls are used extensively in the graphics arts industry. They are ink receptive and offer clarity, durability, and resistance to moisture and chemicals. Calendered vinyl is available with a matte finish, or can be roller polished or press polished. Clear and white are the most common, but there are a wide variety of standard colors.



Rigid Vinyl Sheets Gloss/Gloss or Matte

Thicknesses Available:

.010 .015 .020 .030

Standard sheet size - 25" x 52". Other sheets and slit to size on request.

Honeycomb panel for digital print and display

FALCONBOARD® FROM HEXACOMB® is a fully recyclable, rigid graphics media board which offers superior performance over most traditional foam options. Its paper-based construction makes Falconboard an ideal solution for your display board needs.

Falconboard® products are environmentally responsible because they are made primarily from renewable forest resources that are completely recyclable. The products structural characteristics, strong, flat, dimensionally stable and rigid-provide improved performance and excellent printability compared to other materials. Falconboard® is recommended for temporary or semi-permanent POP applications as a replacement for traditional wood or foam materials.

Sustainability

- Excellent alternative to traditional foam boards made from polyethylene (PE), high impact polystyrene (HIPS), or polyvinylchloride [PVC].
- Approved for the Sustainable Forestry Initiative (SFI) certified sourcing label, indicating renewable virgin and post-consumer recycled fibers.
- Completely recyclable.



Falconboard® Print Improved design provides the structural support that you expect from a signage and display substrate: no bowing, no bending. Now offers a consistent and more visually appealing white point with printing capabilities to equal that of foam boards.

- Direct Print eliminates the added cost and labor step of mounting.
- Excellent brightness and printability

In stock @ E&T Plastics: White/Kraft/White
1/2" x 48" x 96" and 1/2" x 60" x 120"



FALCONBOARD™
Stronger. Flatter. Greener. Better.



HEXACOMB®
Custom design. Maximum protection.™

General Purpose Glazing Polycarbonate Sheet

Covestro polycarbonate sheet is produced under rigid quality control specifications, meeting ISO certification guidelines for both plants and processes. Polycarbonate resins supplied by Covestro, combined with the latest in production technology, assure that the physical properties of MAKROLON® polycarbonate sheet will meet or exceed the performance characteristics of any directly competitive product on the market today.



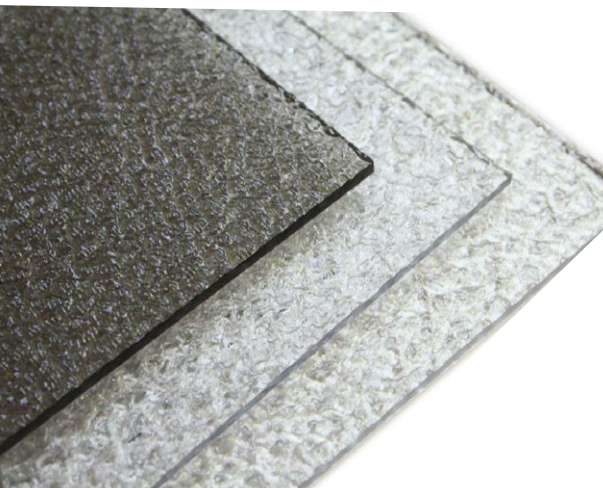
MAKROLON® polycarbonate sheet glazing products offer superior durability, unmatched design flexibility, and structural integrity that easily surpasses laminated glass and acrylic alternatives.

Products Available <i>Product/Grade</i>	Description	Standard Sizes	Standard Colors	Applications
<i>General Purpose</i> MAKROLON® GP Polycarbonate Sheet	Polished Surfaces	Gauges: 1/16 – 1/2" L:96, 120" W:48, 60, 72, 96"	Clear Gray, Bronze	Flat Glazing Curved Glazing
<i>Privacy Patterns</i> MAKROLON® GP (Matte) Polycarbonate Sheet	Matte Surface 1 side Polished 1 side	Gauges: 1/16 – 1/4" L:96" W:48"	Clear Tints available	Privacy/Protective Glazing Industrial Overglazing
MAKROLON® GP (Pebble) Polycarbonate Sheet	Textured both sides	Gauges: 1/8 – 1/4" L:96" W:48"	Clear Tints available	Partitions Light Diffusers

MAKROLON® GP

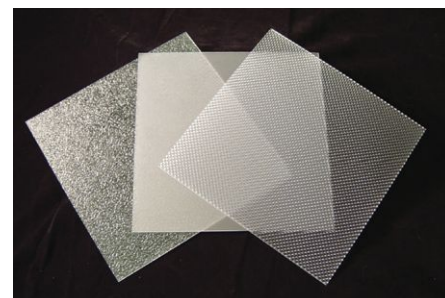
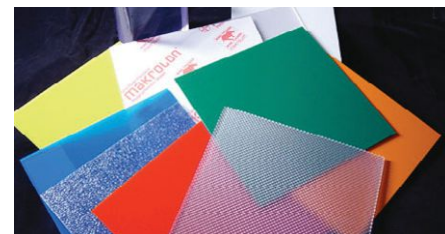
For general purpose applications that require superior impact protection without additional abrasion and UV resistance, MAKROLON® GP polycarbonate sheet is everything you need. Available in clear, colors and privacy patterns,

MAKROLON® GP polycarbonate sheet is a high performance, all purpose glazing material that is both durable and cost effective. This performance is backed by a comprehensive warranty against breakage.



MAKROLON® WEIGHT LBS./SF

Wt. Factor		6.24	
Thickness	Makrolon	Thickness	Makrolon
		0.100	0.624
		0.118	0.737
0.020	0.125	0.125	0.78
0.025	0.156	0.150	0.936
0.030	0.188	0.156	0.974
0.040	0.25	0.177	1.105
0.050	0.312	0.187	1.167
0.060	0.375	0.220	1.373
0.070	0.437	0.236	1.473
0.080	0.5	0.250	1.56
0.090	0.562	0.375	2.34
0.093	0.581	0.500	3.12



Pictured here: Pebble, Clear, Matte, P12.

SunLife Polycarbonate Sheet

MAKROLON® SL Prolonged exposure to the sun can weather even the most durable of surfaces. In the past, acrylic was often chosen for plastic glazing applications because of its inherent resistance to yellowing over time. But compared to polycarbonate, the relative brittleness of acrylic made its impact strength insufficient for demanding, vandal resistant applications. To meet this need, Covestro developed **MAKROLON® SL** polycarbonate sheet. It offers the best of both worlds—the impact protection of **MAKROLON®** polycarbonate sheet and the UV resistance of acrylic. Utilizing advanced formulations combined with state-of-the-art extrusion technology, Covestro has created a tough, consistent quality product that will exhibit superior performance for years to come.



Performance Warranty: The performance of **MAKROLON® SL** polycarbonate sheet has been well documented through years of laboratory and field testing. In side-by-side comparative testing under severe conditions, **MAKROLON® SL** polycarbonate sheet consistently outperformed competitive materials utilizing older technology. Materials were also tested in forms and bends well beyond recommended guidelines, proving that the integrity of SL, as well as its UV resistance, will not change if the sheet is bent or cold-formed. So conclusive was this testing that Covestro offers a limited warranty against excessive yellowing, loss of light transmission, and breakage.

Product Availability Product/Grade	Description	Standard Sizes	Standard Colors	Applications
MAKROLON® SL Polycarbonate Sheet Extended UV Protection	Extended UV Protection 1 side, Polished 2 sides	Gauges 18 – 12" *L:96-120" W:48, 60, 72, 96"	Clear Gray, Bronze	Skylights, Barrel Vaults, Covered Walkways, Canopies

MAKROLON® Light Diffusing Sheet

Light Diffusing MAKROLON® LD Sheet is a highly UV stable polycarbonate product designed to provide superior light diffusion characteristics while maintaining high light transmission. The proprietary diffuser technology eliminates visible hot spots from pinpoint LED lights in typical flat and formed sign applications. The sheet is easy to form, fabricate and decorate and has excellent impact strength and dimensional stability. **MAKROLON® LD** is offered with a ten (10) year limited product warranty against breakage. The terms of the warranty, are available upon request.

MAKROLON® LD



Competitive Polycarbonate





MAKROLON® LUMEN XT Sheet is a translucent polycarbonate product with a textured surface on one side specifically designed for lighting lenses. It features a unique combination of high light diffusion and high light transmission through a combination of optimized surface texture and advanced diffuser technologies.

When compared to other light diffusing products such as glass and acrylic, **Makrolon® Lumen XT** Sheet has superior impact strength and toughness. Its higher flammability resistance and wider service temperature range provide an additional performance advantage over acrylic diffusers.

The wide range of standard diffusion levels as well as both a warm (LW) or a cool (LC) hue offers designers the flexibility to maximize light fixtures' aesthetics and performance. Other surface textures are available for additional design options.

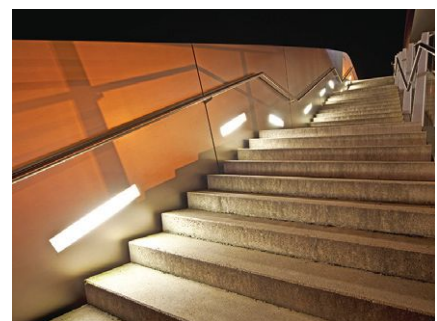
Applications for **Makrolon® Lumen XT** are Interior LED and conventional lighting fixtures. Product is available in 1/16" and 1/8" and carry Flammability rating of UL-94 V2.

Makrolon® Lumen XT

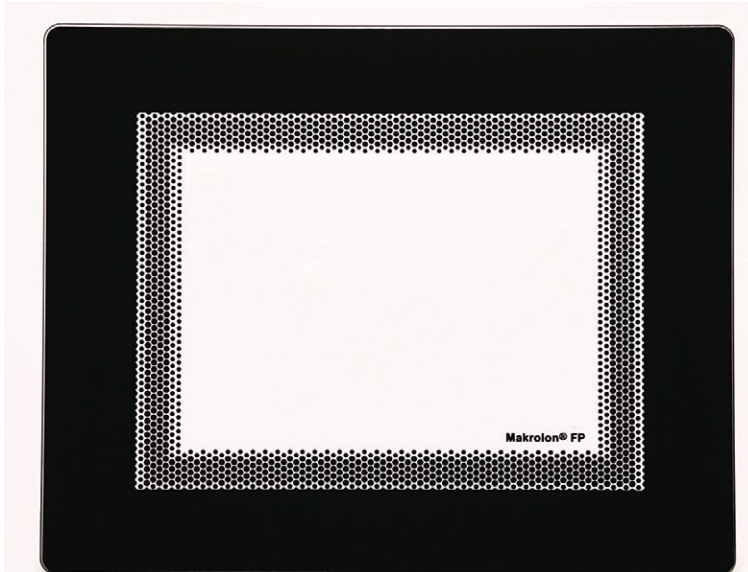
light transmission values*

grade	1/16'	1/8"
LC0	91	90
LC3	90	85
LC5	88	77
LC7	79	62
LW3	93	90
LW7	82	67
LW9	73	55

*according to ASTM D 1003D



Specialty Polycarbonate Sheet



MAKROLON® FP SHEET

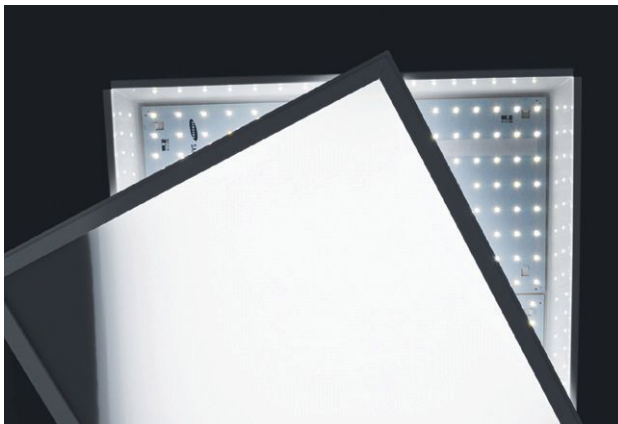
Makrolon® Frit Polycarbonate is a hard coated polycarbonate product that includes a customizable, printed perimeter to allow for innovative installation methods, eliminating the common threaded hardware, clips and glazing channels. The material can be configured to provide a direct replacement for fritted glass. State-of-the-art manufacturing and inspection processes deliver low optical distortion.

The advanced hard coat technology offers excellent abrasion and chemical resistance, and long lasting outdoor weathering performance. In addition, the printed frit provides a bondable surface for the life of the product. Makrolon® FP is available in clear, standard, and custom tints in tandem with tailored frit.

Applications: Heavy equipment cab safety glazing, marine and mass transit glazing, other unique uses to be created.



MAKROLON® VR sheet is a polycarbonate product designed for high optical quality and exceptional durability. Proprietary UV technology ensures long lasting outdoor weathering performance. State-of-the-art manufacturing processes provide low optical distortion for clear views and unparalleled sight lines. MAKROLON® VR can be easily cut and sewn, offering a high clarity, wrinkle-free alternative to flexible vinyl. The product can be rolled, making it ideal for applications with limited storage. MAKROLON® VR is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.



MAKROLON® DX-NR is a translucent polycarbonate product specifically designed for use as a lighting lens in outdoor applications. The advanced UV resistance technology provides long lasting weathering performance and the non-reflective texture built into the UV resistant side of the sheet, enhances its aesthetics. When compared to other light diffusing products such as glass and acrylic, Makrolon DX-NR has superior impact strength and toughness. Its higher flammability resistance and wider service temperature provide an additional advantage over acrylic diffusers.

Substantial
Impact
Resistance



Vandalism
Protection



Polycarbonate Sheet

MAKROLON® 15 Polycarbonate Sheet

A New Superior Polycarbonate Sheet that Offers:

- Long-Term Weatherability
- Vastly Improved Glazing Durability
- Optical Clarity
- Vandalism Protection
- Substantially Superior Impact Resistance
- Significant Weight Reduction
- Enhanced Insulating Properties

MAKROLON® 15 Polycarbonate Sheet offers long-term weatherability and is backed by a 15 year performance warranty.

Window Grade

MAKROLON® WG Polycarbonate Engineering Plate

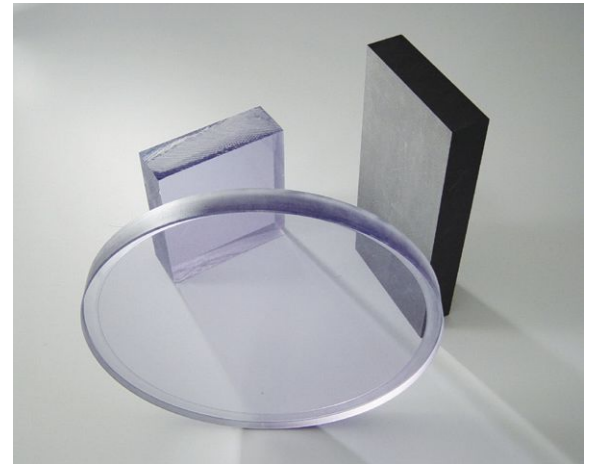
offers extremely high impact strength, high modulus of elasticity, outstanding dimensional stability and good mechanical and electrical properties. **MAKROLON WG** demonstrates low levels of black specks or other impurities.

Applications: Sight windows for tanks/vessels, viewport windows, medical parts and military applications.

Machine Grade MAKROLON® MG Polycarbonate

engineering plate is an amorphous thermoplastic sheet. It offers extremely high impact strength, high modulus of elasticity, outstanding dimensional stability and good mechanical and electrical properties.

Applications: Manifolds, insulators, diaphragms, electrical, semiconductor and military.



A demonstration of the difference between Window Grade [disc] and machine Grade [natural & black]

Food Grade Sheet

FDA/MAKROLON® FD Sheet is a clear non-UV stabilized polycarbonate sheet which complies with FDA and NSF standard 51 requirements. Close gauge tolerance control combined with high impact strength and heat resistance make **MAKROLON® FD** sheet ideally suited for demanding applications in medical equipment as well as food processing environments. **MAKROLON® FD** has a five (5) year warranty against breakage. The terms of the warranty against breakage are set forth in the warranty, which is available upon request.

Applications: Food processing equipment guards, bulk food bins, candy molds, sneeze guards, single use autoclave packaging, hospital trays, bassinets, incubators and medical device storage containers.



High Optics

Ultra Clear/MAKROLON® UC is a polycarbonate product characterized by high visible light transmission in comparison to other polycarbonate products. This product is suitable for lamination with glass using conventional lamination techniques. **MAKROLON UC** should not be used in applications where UV stability is required.

Abrasion Resistant High Transmission MAKROLON® AU

is a hard coated polycarbonate product with high visible light transmission in comparison to other polycarbonate products. This product is suitable for lamination with glass using conventional lamination techniques.



Optical Clear Sheet

MAKROLON® OP Sheet is a clear polished surface, transparent, UV stabilized, polycarbonate product. It features outstanding impact strength, and superior dimensional stability. MAKROLON OP Sheet has a five (5) year warranty against breakage. The terms of the warranty against breakage are set forth in the warranty, which is available upon request.



Flame Resistant

Flame Inhibiting/MAKROLON® FI Polycarbonate Sheet is a unique flame-inhibiting product, that maintains a high level of clarity and light transmission. MAKROLON FI polycarbonate sheet has a UL 94 V-0 rating at .060" and a UL 94 5VA test criteria at .125".

Applications: Transparent interior aircraft components, switchgear covers, electrical devices, thermoformed equipment housings, and other current-carrying components.

Low Flammability/MAKROLON® LF Sheet

is flame-inhibiting and UV stabilized. It is rated UL 94 V-0 at .080" thickness and meets the requirements of FAR 25.853 paragraphs A & B.

Applications: Interior aircraft components, switchgear covers, electrical devices, thermoformed equipment housings, and other current-carrying components



Abrasion Resistant Polycarbonate Sheet



MAKROLON® AR

This polycarbonate sheet offers the dual protection you need to ensure long service life in demanding glazing applications. It offers the high impact strength of standard **MAKROLON® GP** polycarbonate sheet, coupled with enhanced weatherability & superior abrasion resistance. **MAKROLON® AR** polycarbonate sheet features a unique clear hard coat finish that resists all types of abuse, from physical attack to chemicals and spray paint.

Product Availability Product/Grade	Description	Standard Sizes	Standard Colors	Applications
MAKROLON® AR Polycarbonate Sheet <i>Abrasion Resistant Sheet</i>	Polished Surfaces Hard-Coat 2 sides	Gauges 1/8 – 1/2" *L:72,96" W:48,60,72"	Clear Gray, Bronze	Flat Architectural & Transportation Glazing, Security Applications
MAKROLON® HYGARD Laminate <i>Security Glazing</i>	Laminated Polycarbonate & Polycarbonate/Acrylic, Hard-Coat 2 Sides	Gauges 3/8, 1/2, 3/4,1, 1-14" *L:60,72,78,96" W:36,38,48,60"	Clear	Physical Attack & Bullet Resisting Security Glazing

*Custom lengths available

General purpose polycarbonate can't be beat for impact strength. That's why it is so widely used in high traffic areas such as street level windows, bus shelters, and security glazing. Add an abrasion and UV resistant surface and the result is **MAKROLON AR** polycarbonate sheet, a polycarbonate glazing material that provides superior clarity when subjected to repeated contact, cyclical cleaning, and even vandalism.

The Ultimate Security Product



MAKROLON® HYGARD AR

Combines technology with the latest security glazing techniques for high level security and cost effective installation. Increasing violent crime, readily available weapons, and larger glazed areas in modern detention center designs have created a need for higher performing security glazing materials. Sheffield Plastics has developed **MAKROLON HYGARD** to meet this need. Consisting of multiple layers of polycarbonate or polycarbonate/acrylic with bonding interlayers, these

MAKROLON® HYGARD CG375

HPW Level II Step 10
HPW TP0500.02 Level A Ballistics
[.38 Special]
ASTM F1233 Class III Step 12

MAKROLON® HYGARD CG500

HPW Level II Step 12
HPW TP0500.02 Level A Ballistics
[.38 Special]
ASTM F1233 Class III Step 15

MAKROLON® HYGARD CG750

HPW Level IV Step 31
HPW TP0500.02 Level B Ballistics
[9 mm]
ASTM F1233 Class IV Step 26

MAKROLON® HYGARD BR750

UL Level I
HPW TP0500.02 Level B Ballistics
[9 mm]

MAKROLON® HYGARD BR1000

HPW Level V Step 42
HPW TP0500.02 Level B Ballistics
[9 mm]
UL Level 2

MAKROLON® HYGARD BR1250

HPW Level V
HPW TP0500.02 Level C Ballistics
[.44 magnum]
ASTM F1233 Class IV Step 38
UL Level 3



“None Tougher”, yet lightweight materials, offer proven resistance to physical and ballistic attack. Additionally, the relative light weight of **MAKROLON® HYGARD** laminates, combined with easy on-site fabrication, give you a competitive edge on remodeling or retrofit projects where timely job completion is essential.

Sheffield offers **MAKROLON® HYGARD** laminates in six levels of protection ranging from containment rated sheet to UL Level 3 bullet resistant material capable of withstanding multiple rounds fired from super powered handguns. All **MAKROLON® HYGARD** laminated products feature hard coated surfaces for exceptional resistance to abrasion and UV degradation and are covered by a limited warranty against coating failure, excessive yellowing, and structural delamination caused by manufacturing defects.



Specialty Polycarbonate

HYGARD® MS 1250 ballistic grade is a 1.250", 4-ply acrylic and polycarbonate laminate that meets UL 752 Level 6 rating for high speed multi-shot 9-mm (Uzi) ballistic attack. All Hygard products incorporate Makrolon® polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary Makrolon AR hardcoat that facilitates cleaning and resists marring, chemical and graffiti attack. Hygard MS 1250 sheet has a seven year limited product warranty against coating failure, yellowing and hazing.



Polycarbonate Reels

Sign Grade Polycarbonate in sheet or reel, is an enhanced UV resistant product with exceptional weatherability and high impact strength. This product meets UL 879 for electrical signage. It can be easily fabricated, thermoformed and decorated. Sign Grade Reels are available in widths 52", 76" and 100".

Standard Colors are clear and white. E&T Plastics stocks translucent white.

- Excellent whiteness.
- Superior light diffusion.
- Virtually unbreakable.
- Can be shipped flat or in coil
- We can supply to to size pieces from zip code 33309



Clear Hurricane Panels

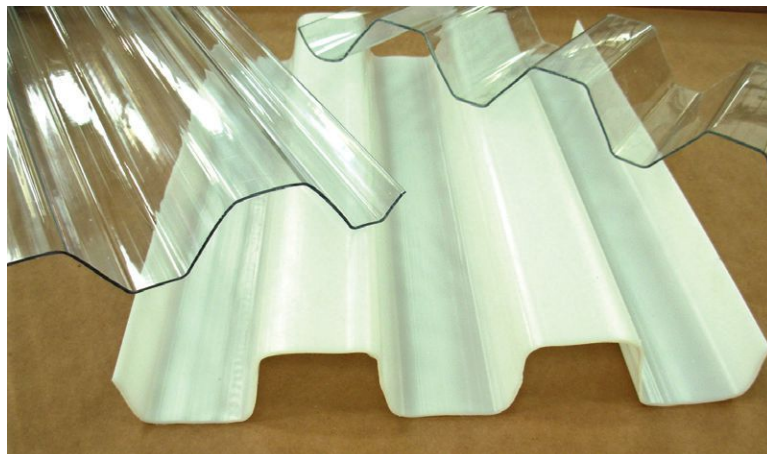
Easy to install Clear Hurricane Panels are made from polycarbonate- the most durable of clear thermoplastics. Our Hurricane Panels are available in 15" widths. Each panel is predrilled and designed to be affixed to standard "F" and "H" mounting system. The Panels nest within each other for both added strength and enhanced beauty.

Standard Panel Sizes:

15" X 33". 15" X 87".
15" X 45". 15" X 102".
15" X 57". 15" X 240".
15" X 70".



Mounting Hardware available in 240" lengths in either "F" Track or "H" Track. Wingnuts and Bolts available to attach panels to Mounting Hardware. +++ Dade County Approved++++





Government Specifications

Government Specifications are continually changing and to better serve you we suggest you refer to website www.everyspec.com to identify materials. At this website you can find AMS Specifications, Federal Specifications, Military Specifications, ASTM Specifications and more. You can also enter desired Code into any internet browser for identification. E&T Plastics felt it would be environmentally irresponsible to print 4 pages that list these specs and find that many have been updated by the time this catalogue reaches you. If you do not have internet access or prefer that personal touch, feel free to call your local E & T Plastics branch.

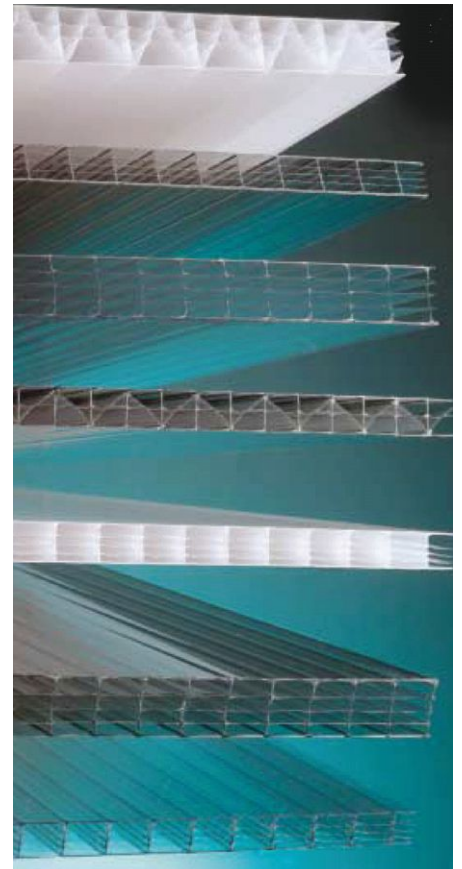
www.everyspec.com



Multi Wall Sheet

Polycarbonate Multiwall Sheets are a durable and economical glazing material. These sheets combine the performance properties of polycarbonate with the structural and thermal benefits derived from a multi-walled sheet. The results are a light weight, strong and insulating sheet. Use these sheets with confidence for both interior and exterior installations. Fabricate with woodworking tools and be amazed at how easy this material is to use. Popular applications are Skylights, Roof Windows, Atriums, Office Partitions to name a few,

- **Durable:** Multiwall Sheets have impact strength 200 times that of glass and 8 times that of acrylic. Polycarbonate Multiwall Sheets are UV resistant and will withstand moisture and severe weather. Some grades are Dade County, Florida Approved for Hurricane Shutters.
- **Economical:** Enjoy cost savings vs monolithic sheet. Honeycomb profile creates an insulating barrier that reduces energy costs. The lightweight design saves money by reducing handling costs and enables you to use lighter and less expensive framing system.
- **Easy:** Install with most standard wooden or metal glazing systems. Use available polycarbonate or aluminum profiles to complete your project with a professional touch.



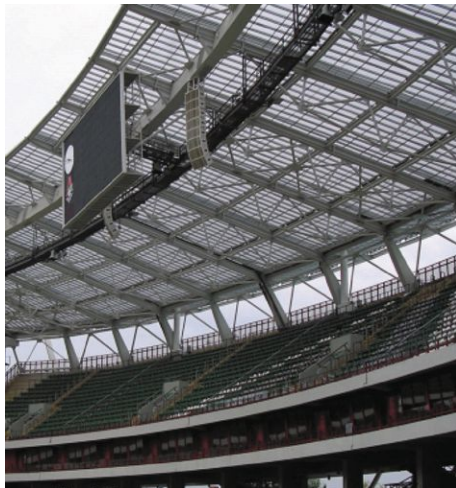
Sheet Sizes & Properties

Standard Sheets are 6mm to 25mm thick and are extruded to 32 ft lengths. E & T Plastics stocks easy to handle 8', 10' and 12'. Other lengths can be provided at your request. Thickness of sheet and construction will impact thermal and structural properties. Refer to specific data sheet for details.

Mechanical and Thermal Properties

Full Technical Information at: www.polygal.com

Product	Structure	Thickness (mm)	Weight (g/m ²)	Standard width (mm)	Minimum radius for cold bending arches(m)	U-Factor ASTM C177 TNO(W/m ² ·°C)
Polygal Standard Sheets		4	800	980	0.70	3.9
		6	1300	1050	1.05	3.6
		8	1500	1200	1.4	3.3
		10	1700	1220	1.75	3.0
		16	2700	1250	2.8	2.3
Triple-Clear		8	1650	1830	-	2.85
		10	1750	2100	-	2.6
Titan		10	1700	980	1.75	2.5
		16	2700	1050	2.8	2.2
Titan Sky		16	2500	1200	2.8	2.08
Selectogal		16	3000	1050	2.8	2.3
Thermogal		25	3500	1200	4.37	1.7
		32	3800	980	5.6	1.4
		35	4000	1200	6.1	1.36
Thermogal Sky		32	3800	1200	5.6	1.22
		40	4200	1250	-	1.1

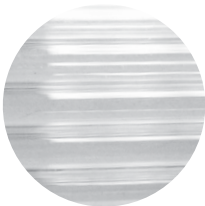
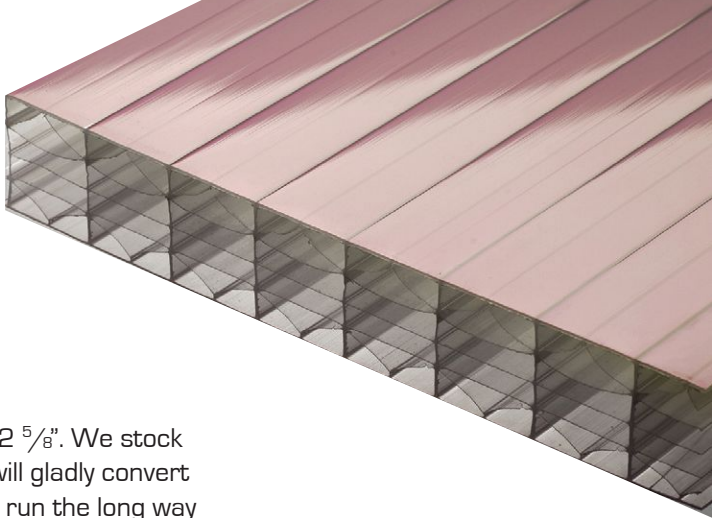


Polycarbonate Multiwall Sheets provide a unique design element. Choose from clear, colored and textured sheets. Discover for yourself why architects around the world are specifying Polycarbonate Multiwall Sheets.

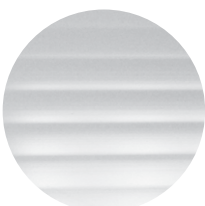
Standard Color Offering

MULTIWALL sheets are available in lengths up to 32 feet long.

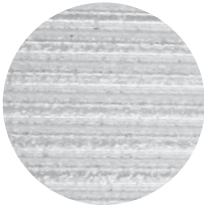
Standard width is 48" wide. Some are available in widths up to 72" & 82 5/8". We stock 48" x 96", 48" x 120" and 48" x 144" of our most popular items. We will gladly convert to your required sizes. Please keep in mind that the flutes (corrugation) run the long way across the sheet.



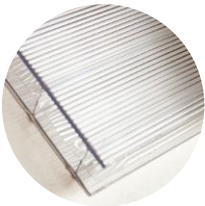
Clear



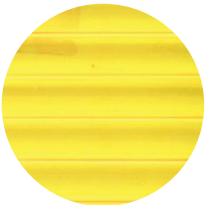
White



Freeze



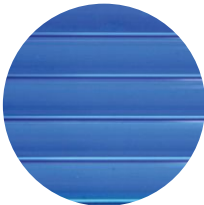
Clear RFX 16
16mm



Yellow
10mm



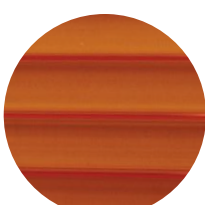
Green
10mm



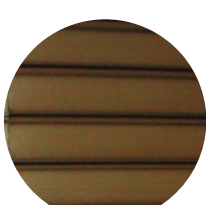
Blue
10mm



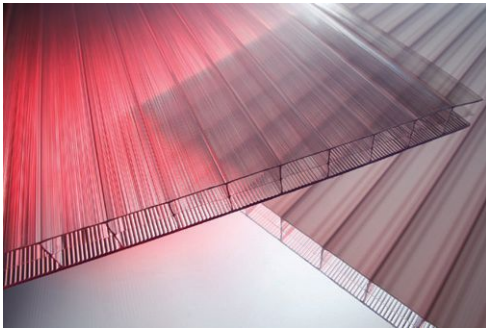
Red
10mm



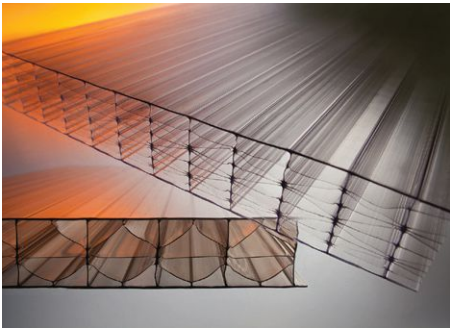
Orange
10mm



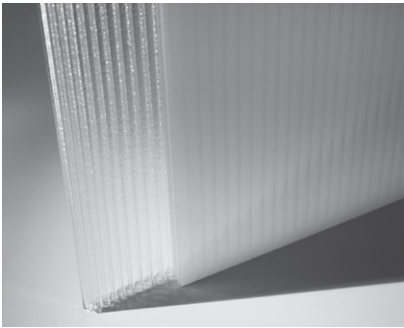
Bronze



2870 Selectogal (002) RFX-16

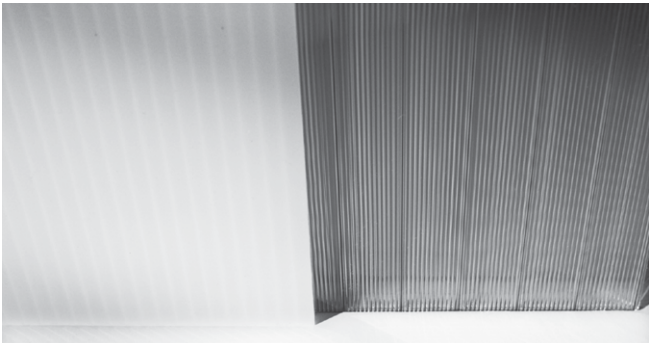


Multiwall 32MM 2913 Thermogal.



Freeze

White



Clear

RFX



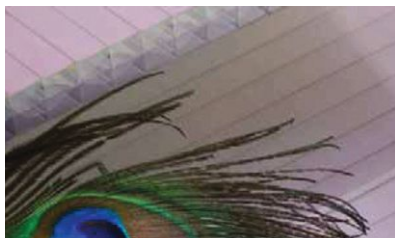
The Plastic Sheets Group

Specialty Panels



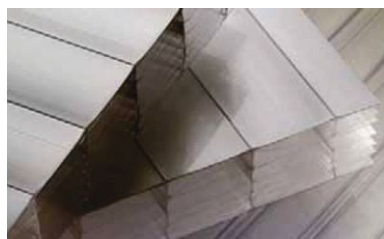
PolyShade

PolyShade -Designed for warm climates. PolyShade effectively reflects sunlight and prevents excess heat build-up, combines effective solar heating control with a highly attractive, metallic look.



PrimaLite

PrimaLite - Unique sheet selectively reflects a large portion of the Near Infra-Red solar radiation, while transmitting more of the visible light radiation.



Silhouette

Silhouette -With it's sophisticated and lustrous exterior surface, radiates elegance and good taste, available in a variety of formats, the Silhouette sheet features outstanding reflective qualities and selectivity making it an excellent choice and suitable for all daylight coverings.

Polycoolite (Primavert) -Specifically designed to supply plants natural solar light needs for photosynthesis. It blocks the UV, supplies high blue and red, and reflects heat from the unused green. It reflects undesirable excess heat from the infrared range



PolyCoolite

Spring -A transparent sheet with a special co-extrusion layer on the external side of the sheet under the UV protective layer "Spring" blocks the invisible IR solar radiation & heat. Result - Lower temperatures (less heat enters the structure), but still allow maximum light to enter the structure.



Spring

Rainbow -Special optical affects in Polygal's Rainbow sheets combine with the angle of the light to change the sheet color (e.g. from red to green), thus the Rainbow sheets by Polygal present a unique harmony that is both dynamic and varied.

Selectogal (RFX) -An exclusive Polygal patent that enables the controlled penetration of heat and the transmission of pleasant daylight into buildings, while reducing heating and lighting costs. Selectogal's sophisticated prismatic structure enables it to reflect most of the sun's heat in the summer, yet allows increased penetration of solar heat in the winter.



Rainbow

Triple Clip -This glazing system combines endless design possibilities with many important advantages: excellent thermal insulation, highly flexible, yet virtually unbreakable, lightweight and easy to install, rigid sheet structure provides extra strength under wind and snow loads.

Easy to assemble pieces



Triple Clip Triple-Clip Panel Glazing System combines endless design possibilities with many important advantages: excellent thermal insulation, highly flexible, yet virtually unbreakable, lightweight and easy to install. Rigid sheet structure provides extra strength under wind and snow loads.

Selectogal (RFX) An exclusive Polygal patent that enables the controlled penetration of heat and the transmission of pleasant daylight into buildings, while reducing heating and lighting costs. Selectogal's sophisticated prismatic structure enables it to reflect most of the sun's heat in the summer, yet allows increased penetration of solar heat in the winter.

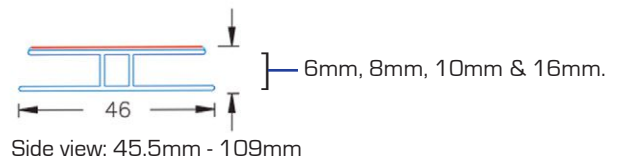
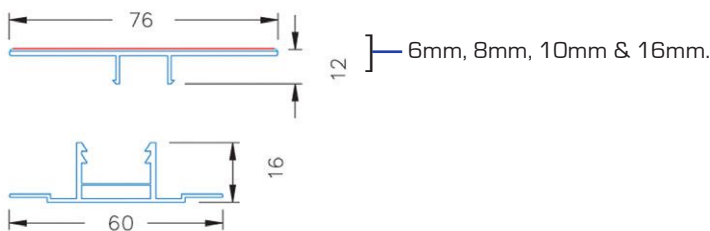


Multiwall Polycarbonate Profiles

(Accessories to complete your unique installation)

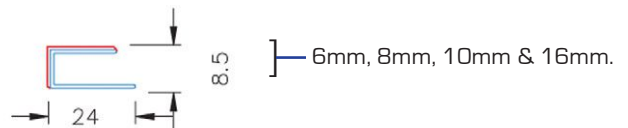
1 Piece H Connector

Shaped like the letter "H", H-Profile seals the edges while at the same time securing sheets. It comes in 144" standard length. Order H-Profile in thickness consistent with Multiwall Sheet and choose from clear, white or bronze. Accepts sheets 6mm, 8mm, 10mm and 16mm.



2 Piece H Connector

2 Piece Connectors are a stronger alternative to H-Profile. Simply secure base to a beam or stud and snap cap in place. Each gauge has a unique shape. Choose from clear, white or bronze. Accepts sheets 6mm, 8mm, 10mm and 16mm.



Edge Sealing Profile

12 ft. lengths used to seal edge from moisture and elements. Other profiles and accessories available. Refer to polygal installation techniques: www.polygal.com for proper selection and installation. Accepts sheets 6mm, 8mm, 10mm and 16mm.

Nylon: The “workhorse” of mechanical plastics...

Nylon is one of the most common and most used due to the variety of shapes, sizes and fillers available. Some of its key properties are:

- Very good wear and abrasion resistance
- Excellent Impact resistance
- FDA/USDA/NSF compliant
- Outstanding chemical resistance
- Continuous use temperature of 210 degrees F

Nylon comes in 2 basic forms; **Extruded** and **Cast**.

The properties are similar for both methods for manufacturing. The main differences are the sizes available, and specific grades and fillers available in each.

Extruded Nylon is most often a 6/6 nylon. It is available in very thin sheets and small diameters, as well as larger sizes. It is a natural color and is also available in black. Some common variations are:

Molybdenum Disulphide filled (nylon MD) increases the surface hardness of nylon, thus increasing its sliding ability. Greater wear resistance and lubricity are achieved. MD is noted by its gray-black color which is often seen as swirls.

Glass filled Nylon enhances stiffness, strength, and dimensional stability. Glass content can range from 10% to 30%. The addition of glass makes it abrasive and not well-suited for sliding applications.

Low-Moisture-Nylon 612 is the most common.

Absorbs less moisture than 6/6, thus offering better dimensional stability in a wet or humid application.

ST801 – Super tough nylon has better impact strength over standard nylon.

Cast Nylon – is a type 6 nylon. It is available in very thick sheets, large diameter rod, and tubular bar. It is a natural color and is available in blue.

Oil-Impregnated – this has a much lower coefficient of friction than regular cast nylon. This makes it ideal for bearings, bushings, and rollers. The oil becomes an integral part of the nylon during the manufacturing process, and will never drain, spill, or dry out. The increased lubricity also enhances machinability.



EXTRUDED NYLON SHEET

Natural, Black, MD

Thickness	Lb./SF	Thickness	Lb./SF	Thickness	Lb./SF
.031	.185	.625	3.71	2.500	14.8
.062	.370	.750	4.45	2.750	16.3
.093	.55	.875	5.19	3.000	17.8
.125	.740	1.000	5.93	3.250	19.3
.187	1.11	1.250	7.41	3.500	20.8
.250	1.48	1.500	8.90	3.750	22.2
.313	1.85	1.750	10.4	4.000	23.7
.375	2.22	2.000	11.9		
.500	2.97	2.250	13.3		

Standard sheet size – 24" x 48"

Other sizes and cut to size on request.

TOLERANCES

Size	Thickness	Width	Length
.031	+/- .003	+ .500/-0	+1.00/-0
.062	+/- .005	+ .500/-0	+1.00/-0
.093	+/- .005	+ .500/-0	+1.00/-0
.125	+/- .010	+ .500/-0	+1.00/-0
.187	+ .025/-0	+ .500/-0	+1.00/-0
.250-4.0	+ .025/-0	+ .250/-0	+ .500/-0

NYLON EXTRUDED ROD

Natural, Black, MD					
DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.125	.006	1.375	.734	3.25	4.10
.187	.014	1.5	.873	3.5	4.75
.250	.024	.625	1.02	3.75	5.46
.313	.038	1.750	1.19	4.000	6.21
.375	0.55	1.875	1.36	4.25	7.01
.438	0.74	2.000	1.55	4.50	7.86
.500	.097	2.125	1.75	4.75	8.76
.563	.127	2.25	1.97	5.00	9.71
.625	.152	2.375	2.19	5.500	11.7
.750	.218	2.50	2.43	6.000	14.0
.875	.297	2.625	2.67	6.5	16.4
1.000	.388	2.750	2.94	7.000	19.0
1.125	.491	2.875	3.21	7.50	21.8
1.250	.607	3.00	3.49	8.000	24.8

Standard length—10 ft.; cut to size on request
Tolerances: .125 – 1.000 +.002/-0
1.00–2.00 +.005/-0
2.125–2.875 +.030/-0
3.00 and larger supplied oversized.



NYLON HEX ROD

Natural		
Size Across Flats		
.187	.500	.875
.250	.562	1.000
.313	.625	1.125
.375	.688	1.250
.438	.750	1.500

Standard length—10 ft
Tolerances: .187 through 1.000 +0/-0.005
1.125 through 1.500 +0/-0.010

All sizes available.
Please call for details.

NYLON PRESSURE & FLEXIBLE TUBING

Natural, Black, MD					
Type H - 2500 PSI MIN. BURST					
I.D.	O.D.	Coil Length	I.D.	O.D.	Coil Length
.078	1/8	500'	.188	5/16	250'
.110	3/16	500'	.225	3/8	250'
.150	1/4	250'	.290	1/2	100'
Type T - 1000 PSI MIN. BURST					
I.D.	O.D.	Coil Length	I.D.	O.D.	Coil Length
.096	1/8	500'	.242	5/16	250'
.106	5/32	500'	.295	3/8	250'
.138	3/16	500'	.380	1/2	100
.190	1/4	250'			
Type 11 Flexible Tubing					
I.D.	O.D.	Coil Length	I.D.	O.D.	Coil Length
.079	1/8	500'	.170	1/4	250'
.106	5/32	500'	.232	5/16	250'
.138	3/16	250'	.275	3/8	100'
.180	1/4	250'	.375	1/2	100'

NATURAL BUSHING STOCK

Natural					
O.D.	I.D.	O.D.	I.D.	O.D.	I.D.
.250	.125	.875	.625	1.750	1.500
.500	.250	1.000	.500	2.000	1.500
.625	.250	1.250	.750	2.000	1.750
.625	.500	1.500	1.000	2.250	2.000
.750	.250	1.500	1.250		
.750	.500	1.750	1.250		

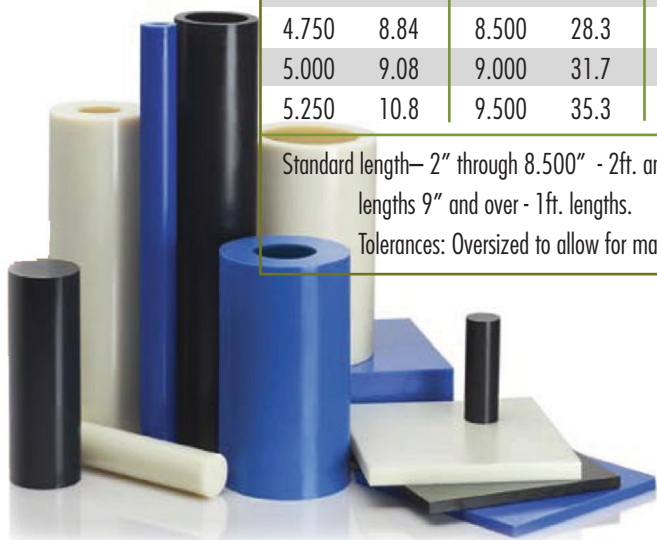
Standard length—10 ft.; cut to size on request
Tolerances: O.D. oversized & I.D. undersized to allow for machining.

CAST NYLON ROD

Natural, Blue, MD, OIL

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
2.000	1.56	5.500	11.8	10.0	39.2
2.250	1.99	5.750	12.9	10.5	43.2
2.500	2.45	6.000	14.1	11.0	47.4
2.750	2.97	6.250	15.3	12.0	56.4
3.000	3.52	6.500	16.5	13.0	66.2
3.250	4.14	6.750	17.9	14.0	76.8
3.500	4.79	7.000	19.2	15.0	88.1
3.750	5.51	7.250	20.6	16.0	100.0
4.000	6.26	7.500	22.0	17.0	113.0
4.250	7.07	7.750	23.5	18.0	127.0
4.500	7.93	8.000	25.1	19.0	141.0
4.750	8.84	8.500	28.3	20.0	157.0
5.000	9.08	9.000	31.7		
5.250	10.8	9.500	35.3		

Standard length— 2" through 8.500" - 2ft. and 4ft.
lengths 9" and over - 1ft. lengths.
Tolerances: Oversized to allow for machining to size.



CAST NYLON SHEET

Natural, Blue, MD, OIL

Thickness	LB./SF	Thickness	LB./SF	Thickness	LB./SF
.250	1.50	1.000	5.99	2.750	16.5
.313	1.87	1.250	7.48	3.000	18.0
.375	2.24	1.500	8.89	3.250	19.5
.500	2.99	1.750	10.5	3.500	21.0
.625	3.74	2.000	12.0	3.750	22.4
.750	4.49	2.250	13.5	4.000	23.9
.875	5.24	2.500	15.0		

Standard sheet size — 24" x 48", 48" x 96"
Other sizes and cut to size on request.

TOLERANCES

Size	Thickness	Width	Length
.250-4.0	+.025/-0	+.500/-0	+1.000/-0



CAST NYLON TUBES

Natural, Blue, MD, OIL

O.D.	I.D. Range	O.D.	I.D. Range
2.00	1.00 - 1.50	7.00	2.75 - 6.25
2.25	1.00 - 2.00	7.25	2.75 - 6.50
2.50	1.00 - 2.25	7.50	2.75 - 6.75
2.75	1.00 - 2.50	8.00	2.75 - 7.25
3.00	1.00 - 2.75	8.50	3.50 - 7.50
3.25	1.00 - 3.00	9.00	3.50 - 8.00
3.50	1.00 - 3.25	9.50	3.50 - 8.50
3.75	1.00 - 3.50	10.00	3.50 - 9.00
4.00	1.50 - 3.50	10.50	3.50 - 9.50
4.25	2.00 - 3.75	11.00	3.50 - 10.00
4.50	2.00 - 4.00	11.50	3.50 - 10.50
4.75	2.00 - 4.25	12.00	3.50 - 10.50
5.00	2.00 - 4.50	13.00	3.50 - 10.50
5.25	2.50 - 4.50	14.00	3.50 - 12.50
5.50	2.50 - 4.75	15.00	6.00 - 13.00
5.75	2.75 - 5.50	16.00	6.00 - 14.00
6.00	2.75 - 5.50	17.00	6.00 - 15.00
6.25	2.75 - 5.50	18.00	8.00 - 16.00
6.50	2.75 - 5.75	19.00	8.00 - 17.00
6.75	2.75 - 6.00	20.00	8.00 - 18.00

I.D. Range— In 1/4" increments from 2.00 O.D. through 9.00 O.D.
In 1/2" increments from 9.50 O.D. and larger.
Standard length— 24", 13", 26", & 52" available in certain sizes.
Call for availability.

Tolerances— O.D. is oversized and I.D. is undersized to allow for machining to the listed sizes.

Delrin® & Acetal

Delrin®/Acetal is a widely used mechanical thermoplastic. It offers a unique combination of cost effective properties such as:

- Excellent moisture resistance.
- Excellent dimensional stability
- Very good rigidity & mechanical strength
- Low coefficient of friction
- FDA/USDA/NSF compliant
- Continuous use temperature of 180°F

Acetal is white in its natural color which makes it ideal in food related applications. It is also available in black. There are 2 basic types of acetal:

HOMOPOLYMER and **COPOLYMER**.

Homopolymer is best known by the trade name **Delrin®**. It has slightly better mechanical and thermal properties than the copolymer. It is available in the following grades:

Glass-Filled– This increases the stiffness, mechanical properties, and dimensional stability of unfilled acetal.

Delrin AF– This is PTFE (Teflon) filled Delrin. It has better lubricity, a lower coefficient of friction, and better wear resistance. The blend can range from 10% to 20% teflon.

Copolymer has been known in the past by the trade name **Celcon®** but more recently by the name **Ultraform®**. It sacrifices some thermal and mechanical properties when compared to the homopolymer, but carries an important advantage. Copolymer does not exhibit any “center line porosity” that is common in the homopolymer.



DELTRIN HEX ROD

Natural

Size Across Flats

.187	.500	.875
.250	.562	1.000
.313	.625	1.125
.375	.688	1.250
.438	.750	1.500

Standard length—10 ft

Tolerances: .187 through 1.000 +0/-0.005

1.125 through 1.500 +0/-0.010



DELTRIN & ACETAL ROD

Natural, Black

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.125	.007	1.375	.917	3.250	5.12
.187	.017	1.500	1.09	3.500	5.94
.250	.030	1.625	1.28	3.750	6.82
.313	.047	1.750	1.49	4.000	7.76
.375	.068	1.875	1.71	4.250	8.76
.438	.093	2.000	1.94	4.500	9.83
.500	.121	2.125	2.19	4.750	11.0
.563	.154	2.250	2.46	5.000	12.1
.625	.189	2.375	2.74	5.500	14.7
.750	.273	2.500	3.03	6.000	17.5
.875	.371	2.625	3.34	6.500	20.5
1.000	.485	2.750	3.67	7.000	23.8
1.125	.614	2.875	4.01	7.500	27.3
1.250	.758	3.000	4.37	8.000	31.1

Standard length—4, 8 and 10 ft.; cut to size on request

Tolerances: .125 – 1.000 +.002/-0

1.00–2.00 +.005/-0

2.125–2.875 +.030/-0

3.00 and larger supplied oversized.

DELTRIN & ACETAL SHEET

Natural, Black

Thickness	Lb./SF	Thickness	Lb./SF	Thickness	Lb./SF
.031	.231	.625	4.63	2.500	18.5
.062	.463	.750	5.56	2.750	20.4
.093	.694	.875	6.49	3.000	22.2
.125	.925	1.000	7.41	3.250	24.1
.187	1.39	1.250	9.27	3.500	26.0
.250	1.85	1.500	11.1	3.750	27.8
.313	2.31	1.750	13.0	4.000	29.7
.375	2.78	2.000	14.8		
.500	3.70	2.250	16.7		

Standard sheet size – 24" x 48", 48" x 96"

Other sizes and cut to size on request.

TOLERANCES

Size	Thickness	Width	Length
.031	+/-0.003	+.500/-0	+1.00/-0
.062	+/-0.005	+.500/-0	+1.00/-0
.093	+/-0.005	+.500/-0	+1.00/-0
.125	+/-0.010	+.500/-0	+1.00/-0
.187	+.025/-0	+.500/-0	+1.00/-0
.250-4.0	+.025/-0	+.250/-0	+.500/-0

Polyethylene Terephthalate (PET)

Common trade names are **Ertalyte®** and **Ensitem®**. It has no center line porosity, very good chemical resistance, and low moisture absorption. PET makes a great alternative to Nylon or Delrin in certain applications. Some other key properties are:

- Excellent hardness and stiffness.
- High flexural modulus & mechanical strength.
- Low coefficient of friction, excellent wear resistance.
- Natural white color is compliant with USDA/FDA/NSF
- Continuous service temperature of 230°.

PET SHEET

Natural, Black

Thickness	Lb./SF	Thickness	Lb./SF	Thickness	Lb./SF
.250	1.78	1.000	7.13	2.750	19.6
.313	2.23	1.250	8.91	3.000	21.4
.375	2.67	1.500	10.7	3.250	23.2
.500	3.56	1.750	12.5	3.500	25.0
.625	4.45	2.000	14.3	3.750	26.7
.750	5.35	2.250	16.0	4.000	28.5
.875	6.24	2.500	17.8		

Standard sheet size — 24" x 48". Other sizes & cut to size on request.

TOLERANCES

Size	Thickness	Width	Length
.250-4.0	+.025/-0	+.250/-0	+.500/-0

Polybutylene Terephthalate (PBT)

Polybutylene Terephthalate, is a polyester. It is known by the trade names **Valox®** and **Ultadur®**. The snow white natural color makes this FDA/USDA compliant material a good choice in food applications. Other properties include:

- Outstanding chemical resistance – especially to chlorine
- Low moisture resistance
- Good dimensional stability
- Excellent wear resistance

PET ROD

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.125	.007	1.375	.0882	3.250	4.93
.187	.016	1.500	1.05	3.500	5.71
.250	.029	1.625	1.23	3.750	6.56
.313	.045	1.750	1.43	4.000	7.46
.375	.066	1.875	1.64	4.250	8.43
.438	.089	2.000	1.87	4.500	9.45
.500	.117	2.125	2.11	4.750	10.50
.563	.148	2.250	2.36	5.000	11.70
.625	.182	2.375	2.63	5.500	14.10
.750	.262	2.500	2.91	6.000	16.80
.875	.357	2.625	3.21	6.500	19.70
1.000	.466	2.750	3.53	7.000	22.90
1.125	.590	2.875	3.86	7.500	26.20
1.250	.729	3.000	4.20	8.000	29.90

Standard length—10 ft. Cut to size on request.

Tolerances: .125 – 1.000 +.002/-0
 1.000 – 2.00 +.005/-0
 2.125 – 2.875 +.030/-0
 3.000 and larger supplied oversized.

PTFE/Glass Fabrics & Tapes

This grouping of high performance materials is best known for the woven fiberglass coated with teflon resin. This can be supplied as fabrics, belts, or pressure sensitive tapes. The best known trade names for this class of products are **Greenbelt®**, **Fluorglass®**, **Taconic®**, and **CHR®**. These products offer the following combination of properties:

- Anti stick/high slip
- High/low temperature range
- Excellent electrical insulation
- Moisture and corrosion resistance

The fabrics are used for gaskets, seals, and diaphragms. The tapes are primarily used for heat sealing films, release coverings, bushing and bearing liners, and many slide and glide applications.

The thickness range is .002" through .024". The standard width is 36", but can be slit to any width and is sold in rolls.

Also in the **PTFE/Glass** "family" are: Adhesive backed - pure **PTFE**, **Kapton®**, **UHMW**, **Teflon coated aluminum foil**.

Fluorofab Fabrics and Belting

Fluorofab fabrics and belting are made from woven fiberglass cloth that has been coated with Teflon. These products offer the well-known properties of Teflon, while being dimensionally stable from -400°F to +600°F. They are non-toxic, odorless, tasteless, and have been cleared by the FDA for use in food processing, packaging and handling. They are ideally suited for a variety of industrial applications.

Typical Fabric and Belting Applications

Heat sealing plastic films • Reusable laminating press release, separator material • Tray linings for non-stick baking and drying • Conveyorized cooking and food processing • Rotary Band Sealers • Conveyorized shrink tunnels

Silicone/Glass Fabrics and Belting

Silicone/Glass Fabrics are made from woven fiberglass cloth that has been coated on one or both sides with Silicone. The end result is a line of products with excellent release properties coupled with the strength and tear resistance of fiberglass.

In fact, silicone fabrics will release from many adhesive materials that would normally stick to Teflon. The operating temperature range of silicone fabrics is from -100°F to +500°F. Dielectric strength is high, as is resistant to wear and flexing.

Typical Fabric and Belting Applications

Shrink tunnel curtains • Gasketing • Release sheet/ separator material • Conveyorized shrink tunnels • Conveyorized quick freeze chambers • Mid-temperature process conveyors

Fluorofab Tape 100 Series

Fluorofab tapes are made from woven fiberglass cloth that has been coated with Teflon. We then apply a silicone adhesive system for the highest temperature applications, or an acrylic adhesive system for applications that require a more aggressive adhesive at lower temperatures.

Typical Applications and Features

Covering the sealing surfaces on polyethylene bag-making equipment • Guide rails and chute linings • Non-stick roll covering • Excellent release qualities • Chemical resistance • Easy to apply

Skived Teflon 110 Series

This is pure unsupported virgin Teflon film with all the characteristics of our Fluorofab tape plus the advantage of being very comfortable. It easily stretches and is often used to line large molds. We adhesive-coat this tape with a high temperature silicone adhesive system.

Typical Applications and Features

Covering the heat sealing surface on: L Bar Sealers, Impulse Sealers, Bag Sealers • Guide rails and chute linings • Mold release • Abrasion resistant, low-friction surface • Exceptional electrical properties • Easy to apply

UHMW Polyolefin Tape 130-Series

UHMW tapes are made from ultra-high molecular weight polyolefin with an aggressive acrylic adhesive system. They are much more abrasive-resistant and puncture-resistant than Teflon, but with a similar non-stick and low coefficient of friction surface. UHMW is FDA-approved and suitable for temperatures up to 225°F.

Typical Applications and Features

Wear strips, chute linings • Guide rails, work surfaces • Furniture drawer slides • Superior abrasion resistant • Puncture resistant • Easy to apply

High Modulus Teflon Tape 115-2S, 150-2S Series

High Modulus Teflon Tapes are pure unsupported virgin Teflon similar to Skived Teflon, but much denser and stronger. These tapes are ideally suited as a high-temperature roller wrap during flat die polyethylene extrusion and laminating processes. They also possess unusually high dielectric strengths and are often used to insulate coils and transformers.

Typical Applications and Features

Roller wrapping • Electrical insulation • Excellent release characteristics • Abrasion resistant, low-friction surface • Chemical resistant

Polyetherimide (Ultem®)

PEI combines thermal, mechanical, and electrical properties in a unique balance that classifies it as a truly high performance thermoplastic. Ultem® is used extensively in medical applications, as well as electronic, microwave, and aerospace fields.

- Continuous use temperature of 388°F
- Ultem® retains a high level of all of it's properties at elevated temperatures.
- FDA/USDA/NSF compliant.
- Excellent mechanical strength and stiffness.
- Outstanding electrical properties.
- Withstands repeated autoclaving.
- Flame resistant with low smoke evolution.
- Easily machined and finished.
- Available glass filled.

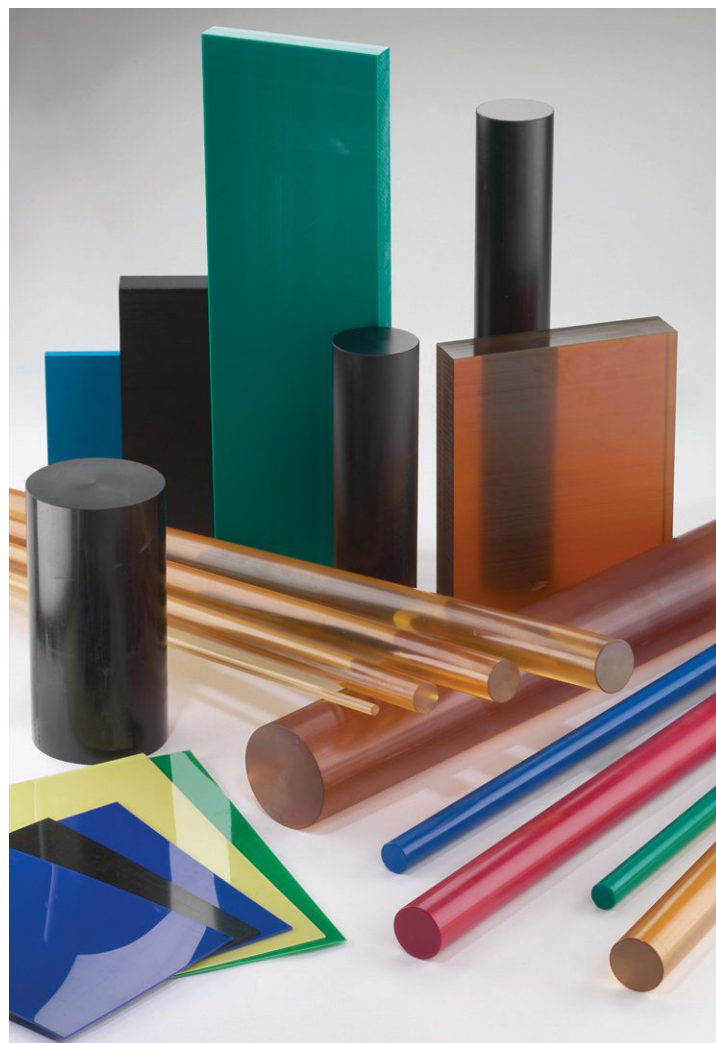
ULTEM® 1000 ROD

Natural

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.125	.007	1.375	.817	3.250	4.57
.187	.015	1.500	.973	3.500	5.30
.250	.021	1.625	1.14	3.750	6.78
.313	.042	1.750	1.32	4.000	6.92
.375	.061	1.875	1.52	4.250	7.81
.438	.083	2.000	1.73	4.500	8.76
.500	.108	2.125	1.95	4.750	9.76
.563	.137	2.250	2.19	5.000	10.8
.625	.169	2.375	2.44	5.500	13.1
.750	.243	2.500	2.70	6.000	15.6
.875	.331	2.625	2.98	6.500	18.3
1.000	.432	2.750	3.27	7.000	21.2
1.125	.547	2.875	3.57	7.500	24.3
1.250	.676	3.000	3.89	8.000	27.7

Standard length—10 ft. Cut to size on request.

Tolerances: .125 – 1.000 +.002/-0
 1.000 – 2.00 +.005/-0
 2.125 – 2.875 +.030/-0
 3.000 and larger supplied oversized.



ULTEM® 1000 SHEET

PVDF Sheet

Thickness	Lb./SF	Thickness	Lb./SF	Thickness	Lb./SF
.250	1.65	1.000	6.61	2.750	18.2
.313	2.06	1.250	8.25	3.000	19.8
.375	2.48	1.500	9.91	3.250	21.5
.500	3.30	1.750	11.6	3.500	23.1
.625	4.13	2.000	13.2	3.750	24.8
.750	4.96	2.250	14.9	4.000	26.4
.875	5.78	2.500	16.5		

Standard sheet size — 24" x 48"

Other sizes and cut to size on request.

TOLERANCES

Size	Thickness	Width	Length
.250-4.0	+.025/-0	+.250/-0	+.500/-0

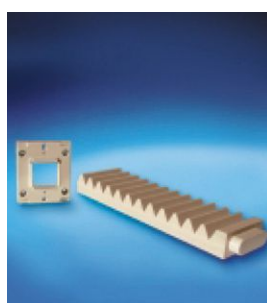
Polyetheretherketone (PEEK)



Photo courtesy Ensinger

Polyetheretherketone is near the top of all of the high performance engineering thermoplastics, and exhibits some of the very best properties available. It is used in the most critical, demanding applications in aerospace, medical, nuclear, and electronics fields. Its outstanding properties include:

- 482°F continuous working temperature
- Outstanding chemical resistant
- Strong, stiff, and impact resistant
- Outstanding abrasion and wear resistant
- Excellent electrical properties
- Resists hydrolysis in boiling water
- Resistant to radiation



PEEK SHEET

Natural					
Thickness	Lb./SF	Thickness	Lb./SF	Thickness	Lb./SF
.250	1.69	1.000	6.76	2.750	18.6
.313	2.11	1.250	8.45	3.000	20.3
.375	2.54	1.500	10.1	3.250	22.0
.500	3.38	1.750	11.8	3.500	23.7
.625	4.23	2.000	13.5	3.750	27.1
.750	5.07	2.250	15.2	4.000	
.875	5.92	2.500	16.9		

Standard sheet size – 24" x 48"
Other sizes and cut to size on request.

TOLERANCES			
Size	Thickness	Width	Length
.250-4.0	+ .025/-0	+ .250/-0	+ .500/-0

PEEK ROD

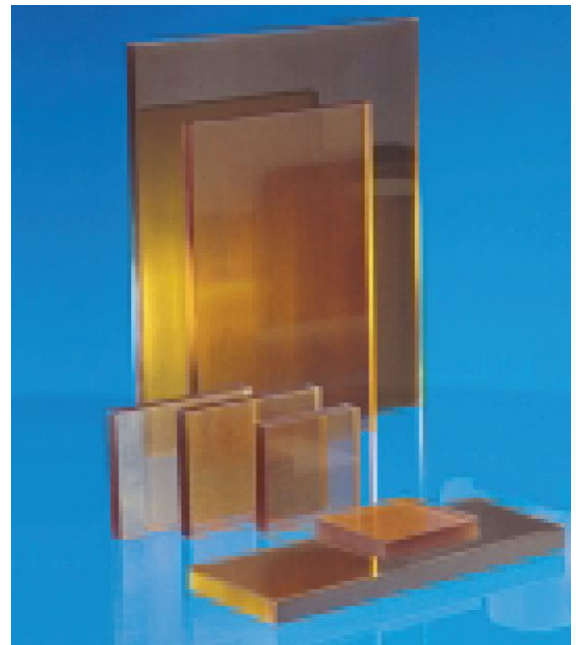
Natural					
DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.125	.007	1.250	.692	2.875	4.57
.187	.016	1.375	.837	3.000	5.30
.250	.028	1.500	.996	3.250	6.78
.313	.043	1.625	1.17	3.500	6.92
.375	.062	1.750	1.36	3.750	7.81
.438	.085	1.875	1.56	4.000	8.76
.500	.111	2.000	1.77	4.250	9.76
.563	.140	2.125	2.00	4.500	10.8
.625	.173	2.250	2.24	4.750	13.1
.750	.249	2.375	2.50	5.000	15.6
.875	.339	2.500	2.77	5.500	18.3
1.000	.443	2.625	3.05	6.000	21.2
1.125	.560	2.750	3.53		

Standard length— 5 ft. Cut to size on request.
Tolerances: .125 – 1.000 +.002/-0
1.000 – 2.00 +.005/-0
2.125 – 2.875 +.030/-0
3.000 and larger supplied oversized.

Polysulfone

Polysulfone is a transparent amber high performance engineering plastic. It is a tough, rigid and high strength, high temperatures up to 285°F to 300°F or down to minus 150°F, with minimal loss of properties. It can be steam-sterilized or autoclaved again and again, which makes it a perfect choice to use in the medical industry, as well as the food processing industry. It is also a popular choice in the electronics field. Key properties include:

- Long term continuous use at 285°F
- High strength and rigidity
- Good chemical resistance
- Excellent electrical properties
- FDA/USDA/NSF compliant
- Flame retardant – UL94 V-0



Polysulfone Rod

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.125	.007	1.375	.798	3.250	4.46
.187	.015	1.500	.950	3.500	5.17
.250	.026	1.625	1.11	3.750	5.94
.313	.041	1.750	1.29	4.000	6.76
.375	.059	1.875	1.48	4.250	7.63
.438	.081	2.000	1.69	4.500	8.55
.500	.106	2.125	1.91	4.750	9.53
.563	.134	2.250	2.14	5.000	10.6
.625	.165	2.375	2.38	5.500	12.8
.750	.238	2.500	2.64	6.000	15.2
.875	.323	2.625	2.91	6.500	17.8
1.000	.422	2.750	3.19	7.000	20.7
1.125	.534	2.875	3.49	7.500	23.8
1.250	.660	3.000	3.80	8.000	27.0

Standard length—10 ft. Cut to size on request.

Tolerances: .125 – 1.000 +.002/-0
1.000 – 2.00 +.005/-0
2.125 – 2.875 +.030/-0
3.000 and larger supplied oversized.

Polysulfone Sheet

Thickness	Lb./SF	Thickness	Lb./SF	Thickness	Lb./SF
.250	1.61	1.000	6.45	2.750	17.7
.313	2.02	1.250	8.06	3.000	19.4
.375	2.42	1.500	9.68	3.250	21.0
.500	3.23	1.750	11.3	3.500	22.6
.625	4.03	2.000	12.9	3.750	24.2
.750	4.84	2.250	14.5	4.000	25.8
.875	5.64	2.500	16.1		

Standard sheet size – 24" x 48"

Other sizes and cut to size on request.

TOLERANCES

Size	Thickness	Width	Length
.250-4.0	+.025/-0	+.250/-0	+.500/-0

E&T Plastics is
the industry leader in
high performance plastics

Polyvinylidene Fluoride KYNAR®



PVDF (KYNAR®)

PVDF Sheet

Thickness	Lb./SF	Thickness	Lb./SF	Thickness	Lb./SF
.250	2.32	1.000	9.26	2.750	25.5
.313	2.89	1.250	11.6	3.000	27.8
.375	3.47	1.500	13.9	3.250	30.1
.500	4.63	1.750	16.2	3.500	32.4
.625	5.79	2.000	18.5	3.750	34.7
.750	6.95	2.250	20.8	4.000	37.0
.875	8.10	2.500	23.2		

Standard length—10 ft. Cut to size on request.

Tolerances: .125 – 1.000 +.002/-0
 1.000 – 2.00 +.005/-0
 2.125 – 2.875 +.030/-0
 3.000 and larger supplied oversized.

E&T Plastics is
 the industry leader in machining
 Kynar plate!

PVDF has outstanding chemical resistance, and retains this property over many years of service. Standard fabrication techniques include hot air welding. For these reasons it is used extensively in corrosion resistant applications, such as chemical, pharmaceutical, and food industries.



Other Key Features:

- FDA/USDA/NSF Compliant
- Resistant to UV and Gamma radiation.
- Moisture resistant
- Non-flammable and self extinguishing
- Continuous operating temperature of 285°F.

PVDF ROD

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.125	.009	1.375	1.15	3.250	6.40
.187	.021	1.500	1.36	3.500	7.42
.250	.038	1.625	1.60	3.750	8.52
.313	.060	1.750	1.86	4.000	9.80
.375	.085	1.875	2.13	4.250	11.0
.438	.116	2.000	1.87	4.500	12.3
.500	.151	2.125	2.11	4.750	13.7
.563	.192	2.250	2.36	5.000	15.2
.625	.237	2.375	2.63	5.500	18.3
.750	.341	2.500	2.91	6.000	21.8
.875	.464	2.625	3.21	6.500	25.7
1.000	.606	2.750	3.53	7.000	29.7
1.125	.767	2.875	3.86	7.500	34.1
1.250	.947	3.000	4.20	8.000	38.8

Standard length—10 ft. Cut to size on request.

Tolerances: .125 – 1.000 +.002/-0
 1.000 – 2.00 +.005/-0
 2.125 – 2.875 +.030/-0
 3.000 and larger supplied oversized.



NORYL®

Noryl® is GE's tradename for Polyphenylene oxide modified with styrene. It is a good electrical insulator and exhibits low moisture absorption. Applications include electronics, business equipment, and appliances. It is available in a number of different grades which varies specific properties. In general Noryl exhibits:

- High impact strength
- Good thermoforming capabilities
- 220°F continuous temperature
- Dimensionally stable

At E&T Plastics it is our pleasure to offer you our customer, the plastics cut to your specifications on our computerized saw equipment as well as the standard shapes offered by the manufacturers

NORYL® ROD

Black EN265

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.125	.006	1.375	.682	3.250	3.81
.187	.013	1.500	.812	3.500	4.42
.250	.023	1.625	.953	3.750	5.07
.313	.035	1.750	1.11	4.000	5.77
.375	.051	1.875	1.27	4.250	6.52
.438	.069	2.000	1.44	4.500	7.31
.500	.090	2.125	1.63	4.750	8.14
.563	.114	2.250	1.83	5.000	9.02
.625	.141	2.375	2.04	5.500	10.9
.750	.230	2.500	2.26	6.000	13.0
.875	.276	2.625	2.49	6.500	15.1
1.000	.361	2.750	2.73	7.000	17.7
1.125	.457	2.875	2.98	7.500	20.3
1.250	.564	3.000	3.25	8.000	23.1

Standard length - 10 feet. Cut to size on request

Tolerances: .125 - 1.00 +.002/-0

1.00 - 2.00 +.005/-0

2.125 - 2.875 +.030/-0

3.00 & over supplied oversized

NORYL® SHEET

Black EN265

Thickness	Lb./SF	Thickness	Lb./SF	Thickness	Lb./SF
.250	1.38	1.000	5.51	2.750	15.2
.313	1.72	1.250	6.89	3.000	16.5
.375	2.07	1.500	8.27	3.250	17.9
.500	2.76	1.750	9.65	3.500	19.3
.625	3.45	2.000	11.1	3.750	20.7
.750	4.14	2.250	12.4	4.000	22.1
.875	4.83	2.500	13.8		

Standard sheet size - 24" x 48"

Other sizes and cut to size on request.

TOLERANCES

Size	Thickness	Width	Length
.250-4.0	+.025/-0	+.250/-0	+.500/-0

E&T Plastics is
the industry leader in
high performance plastics

Thermosets

Phenolics are one of the oldest plastics. They encompass a wide variety of grades, each with a specific set of properties. Phenolics are manufactured by impregnating layers of material with a phenolic resin, and then applying heat and pressure which transforms these layers into a solid mass. The result is a thermoset which is dense, dimensionally stable, structurally strong, has low creep, and is an excellent electrical insulator. This general group of industrial laminates also includes glass fabrics which are laminated with melamine, epoxy, or silicone resins.

PAPER GRADES

NEMA grades X, XX, XXX, XP, XXXP, XPC
Lowest cost of the phenolic family. Used as electrical insulators, switchboards, panel boards. The punching grades can be die cut to intricate shapes.

FABRIC GRADES

NEMA C, CE - Canvas grade is used for high mechanical and impact strength. This is the most common and widely used phenolic. Applications include gears, rollers, pulleys, and many other structural applications. The CE grade improves electrical insulation and better moisture resistance.

NEMA L, LE - Linen grade uses a finer weave than the canvas. This allows for better machining of intricate shapes. Linen is used for finer gears, bushings, and pinions. The LE grade offers the best insulation of all the fabric grades, and is resistant to moisture and mild acids and alkalies.

GLASS GRADES

NEMA G-3 - Glass fabric with phenolic offers more mechanical strength and moisture resistance. This is often used for seals and gaskets.

NEMA G-5, G-9 - Glass fabric with melamine offers superior arc resistance, outstanding overall electrical properties even under wet conditions, and flame resistance. The G-9 meets a more stringent military specification. These grades are used for arc barriers, circuit breaker parts, terminal blocks, and switchboard panels.

NEMA G-7 - Glass fabric with silicone is for high temperature applications. It can operate continuously at **485 F**. Like the other glass grades, it has excellent electrical properties. It is classified as class H insulation and is used in any high temperature electrical applications.

NEMA G-10, G-11, FR-4 - Glass fabric with epoxy offers very good mechanical strength, excellent moisture resistance, and excellent electrical properties. It maintains these properties at elevated temperatures. This is used in structural applications, slot insulations, and washers. The FR-4 offers superior flame resistance and is used for circuit boards.

NEMA GPO-1, GPO-2, GPO-3 - Glass mat reinforced with thermoset polyester offer electrical insulation, moisture resistance and economy. GPO-1 is a good punching material used for transformer spacers and supports. GPO-2 is U.L. 94V-0 where flame retardancy is needed. GPO-3 offers this also with greater arc and track protection and low smoke generation.

PHENOLIC SHEET WEIGHT CHART

[Approximate lbs per square foot]

THICKNESS	PAPER GRADES	FABRIC GRADES	GLASS GRADES	THICKNESS	PAPER GRADES	FABRIC GRADES	GLASS GRADES
.016	.109	.111	.162	.500	3.48	3.71	5.20
.032	.218	.221	.324	.625	4.36	4.61	6.50
.047	.327	.332	.488	.750	5.23	5.51	7.80
.063	.436	.442	.650	.875	6.10	6.41	9.10
.093	.654	.663	.974	1.000	6.97	7.30	10.40
.125	.871	.884	1.30	1.125	7.84	8.19	11.70
.156	1.09	1.11	1.62	1.250	8.71	9.07	13.00
.187	1.31	1.33	1.95	1.500	10.45	10.94	15.60
.250	1.74	1.87	2.60	1.750	12.19	12.82	18.20
.313	2.18	2.33	3.25	2.000	13.94	14.69	20.80
.375	2.61	2.79	3.90	2.500	17.42	18.40	26.00
.438	3.05	3.25	4.55	3.000	20.90	22.10	31.20

Standard sizes - 36" x 36", 36" x 48", 36" x 72", 48" x 48", 48" x 96". Other sizes and cut to size on request.

NEMA SHEET THICKNESS TOLERANCES

[Plus or Minus in Inches.]

THICKNESS	PAPER GRADES	CE GRADE	C GRADE	L GRADE	LE GRADE	GLASS GRADES
.016	.0025	—	—	.0035	.0035	.003
.032	.0035	.0065	.0065	.005	.005	.0065
.047	.0045	.0075	.0075	.0055	.0055	.0075
.063	.005	.0075	.0075	.006	.006	.0075
.093	.007	.009	.009	.007	.007	.009
.125	.008	.010	.010	.008	.008	.012
.156	.009	.011	.011	.009	.009	.015
.187	.010	.0125	.0125	.010	.010	.019
			PLUS ONLY	PLUS ONLY		
.250	.012	.015	.030	.024	.012	.022
.313	.0145	.0175	.035	.029	.0145	.026
.375	.017	.020	.040	.034	.017	.030
.438	.019	.022	.044	.038	.017	.033
.500	.021	.024	.048	.042	.021	.036
.625	.024	.027	.053	.048	.024	.040
.750	.027	.029	.058	.054	.027	.043
.875	.030	.031	.062	.060	.030	.046
1.000	.033	.033	.065	.065	.033	.049
1.125	.035	.035	.069	.069	.035	.053
1.250	.037	.037	.073	.073	.037	.055
1.500	.041	.041	.081	.081	.041	.061
1.750	.045	.045	.089	.089	.045	.067
2.000	.049	.049	.097	.097	.049	.073

Sheet surface can be sanded to a tighter tolerance.

PHENOLIC TUBES

I.D.

From .093 to 24"

Wall Thicknesses

From .008 To 2"

Lengths

36" & 48"

Please contact

E&T for

availability of
specific grades.

Polyvinylchloride (PVC)



Polyvinylchloride (PVC) comes in many different forms. These different forms modify the properties to suit particular applications. Plasticisers, stabilizers, and impact modifiers can be added to produce these modifications. In general, PVC offers excellent chemical and corrosion resistance. PVC offers a major advantage over many other corrosion resistant products because it can be solvent cemented. It can also be thermally welded. This versatility in fabrication is why PVC is so widely used. The main types of PVC are:

GREY TYPE I PVC - The most common type. Used for plating tanks, exhaust hoods, and scrubbers for any industry using or processing chemicals. It is NSF compliant and has a continuous operating temperature of 160°F.

WHITE TYPE I PVC - Used for aesthetic properties where white is desirable over the standard grey.

CLEAR PVC - Used for viewing windows, often in conjunction with other PVC fabrication. The advantage over other clear materials is that it can be welded to the grey or white PVC. Like the other PVC's, it has good impact strength and chemical resistance.

TYPE II PVC - Offers higher impact strength than the type I. It is lighter grey in color than the type I.

CPVC - This is a higher temperature material. It can be used to 200°F continuously.



GREY TYPE I PVC ROD

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.250	.029	1.500	1.06	3.000	4.24
.375	.066	1.625	1.24	3.500	5.77
.500	.117	1.750	1.45	4.000	7.55
.625	.183	1.875	1.66	4.500	9.55
.750	.265	2.000	1.89	5.000	11.7
.875	.358	2.125	2.13	5.500	14.3
1.000	.471	2.250	2.39	6.000	17.1
1.125	.594	2.375	2.66	6.500	20.0
1.250	.735	2.500	2.95	7.000	23.3
1.375	.891	2.750	3.24	8.000	30.4

Type 2 rod and cpvc rod also available.

For details, contact your local E & T Plastics branch.

Standard length - 10 feet. Cut to size on request

Tolerance - +/- 3% OD.

RIGID PVC SHEET

Grey type I, white type I, type II, cpvc *

Thickness	LB./SHT.	Thickness	LB./SHT.	Thickness	LB./SHT.
.031	7.5	.250	60	1.000	240
.062	15.0	.375	90	1.250	300
.093	22.5	.500	120	1.500	360
.125	30.0	.625	150	1.750	420
.187	45.0	.750	180	2.000	480

*Clear pvc and wire reinforced also available.

Please contact your local E & T Plastics branch.

Standard sheet size - 48" x 96". Cut to size on request

Tolerance - Thickness +/- 10%. Special tolerances on request.

PVC WELDING ROD

Diameter	Triangular	Feet/Lb
1/8"	1/8"	135
5/32"	5/32"	86
3/16"	3/16"	60

Standard coil - 15 pounds. Straight lengths also available.

OTHER PVC SHAPES AVAILABLE

Hex rod	Square rod
Rectangular bar	Square tube
Rectangular tube	Angles

Contact your E&T branch for all your PVC requirements.

CLEAR FLEXIBLE VINYL TUBING - FOOD GRADE

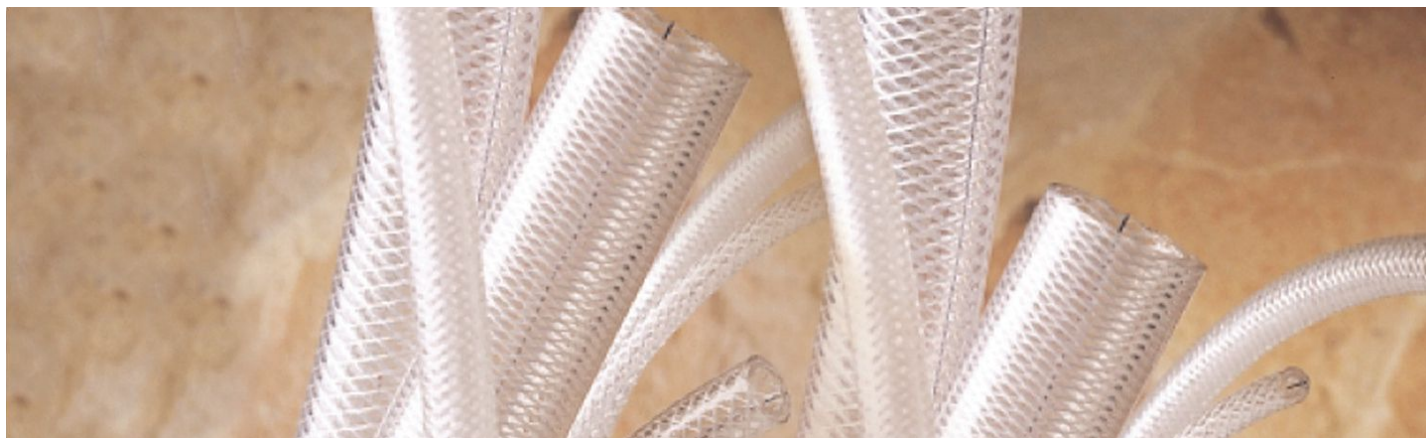
I.D.	O.D.	MAX. PSI 68°	I.D.	O.D.	MAX. PSI 68°	I.D.	O.D.	MAX. PSI 68°
1/16	7/32	95	1/2	5/8	30	1	1-1/2	45
1/16	1/8	33	1/2	11/16	40	1-1/8	1-5/16	19
3/32	5/32	42	1/2	3/4	45	1-1/8	1/38	24
.120	.170	15	1/2	13/16	65	1-1/4	1-7/16	20
1/8	3/16	44	1/2	7/8	57	1-1/4	1-1/2	22
1/8	1/4	68	1/2	1	66	1-1/4	1-5/8	31
5/32	7/32	38	9/16	3/4	40	1-1/4	1-3/4	45
5/32	11/32	73	9/16	13/16	45	1-3/8	1-3/4	28
.170	1/4	42	9/16	7/8	55	1-1/2	1-3/4	19
3/16	1/4	33	5/8	3/4	48	1-1/2	1-7/8	26
3/16	5/16	55	5/8	13/16	35	1-1/2	2	40
3/16	3/8	70	5/8	7/8	40	1-1/2	2-1/4	—
3/16	7/16	80	5/8	15/16	50	1-3/4	2	16
1/4	3/8	55	5/8	1	49	1-3/4	2-1/4	29
1/4	7/16	60	11/16	7/8	30	2	2-1/4	14
1/4	1/2	70	11/16	15/16	35	2	2-3/8	20
1/4	9/16	73	11/16	1	40	2	2-1/2	35
5/16	7/16	50	3/4	7/8	19	2	2-3/4	36
5/16	1/2	60	3/4	1	35	2-1/4	2-3/4	24
5/16	9/16	70	3/4	1-1/16	40	2-1/2	3	22
3/8	1/2	40	3/4	1-1/8	44	3	3-1/2	19
3/8	9/16	50	3/4	1-1/4	44	3-1/2	4	16
3/8	5/8	65	7/8	1-1/16	30	4	4-3/4	21
3/8	3/4	66	7/8	1-3/16	35			
3/8	7/8	76	7/8	1-1/4	40			
7/16	9/16	40	1	1-1/4	28			
7/16	5/8	45	1	1-5/16	32			
7/16	11/16	50	1	1-3/8	45			

Vinyl Tube



Vinyl tubing is clear, very flexible and has a smooth bore. It is resistant to chemicals, corrosion, oxidation, aging, and bacteria. It can be attached by worm screw clamps, barbed fittings, cemented, or thermally welded. In food grades it is USDA/FDA/NSF compliant. It is pure and nontoxic. Vinyl tubing has literally thousands of applications including: food processing, chemical processing, pharmaceutical, medical, air lines, drain lines, and water lines.

Ask us about braided
or reinforced tube.



Excelon® R-4000 Clear Pvc Pipe

Where visual control is required, Excelon® R-4000 offers all the benefits of standard rigid PVC schedule 40 pipe, but in a transparent form. It is non toxic, resists bacterial activity, and meets FDA standards for sanitary use in food, drug, and chemical processing. It is non-conductive, and not subject to deterioration by corrosion. The smooth interior surfaces of the pipe permit maximum flow rates and minimize the accumulation of sediment. It can be solvent cemented to clear Excelon® R-4000 fittings, or to standard gray schedule 40 fittings.

Excelon® R-4000 Clear Pvc Pipe

Nom. Pipe Size	Avg. I.D.	O.D.	Min. Wall	Max. W.P PSI
1/4	.344	.540	.088	390
3/8	.473	.675	.091	310
1/2	.602	.840	.109	300
3/4	.804	1.050	.113	240
1	1.029	1.315	.133	220
1-1/4	1.360	1.660	.140	180
1-1/2	1.590	1.900	.145	170
2	2.047	2.375	.154	140
2-1/2	2.445	2.875	.203	150
3	3.042	3.500	.216	130
3-1/2	3.521	4.000	.226	120
4	3.998	4.500	.237	110
6	6.375	6.625	.115	45

Standard length - 10 ft.

Clear fittings available. Contact E & T Plastics.

Vinyl Strip Doors

These are transparent strips which are hung in walk through or drive through openings. They provide temperature control for coolers and freezers. They provide dust control and noise abatement when hung in factory openings. On loading docks they keep the weather out and the heat in. They are clear, for safety's sake, and are available in both standard industrial grade and USDA compliant grade. They are also available in amber/orange for welding booths.

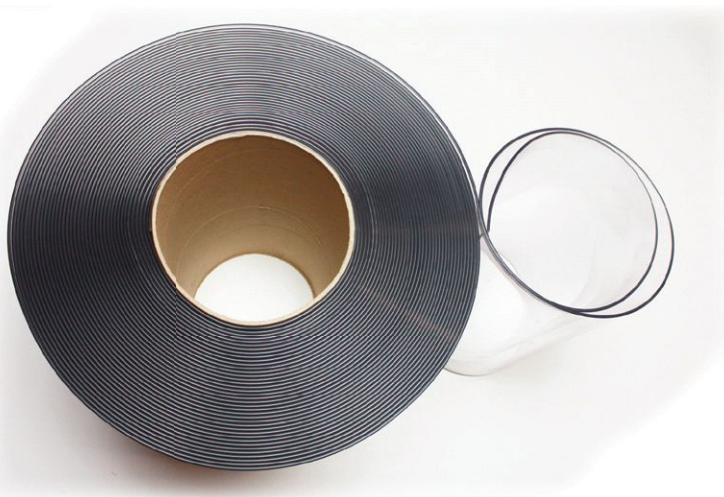


VINYL STRIP DOORS

Standard, USDA, Amber Weld

Thickness	Width x Length	Thickness	Width x Length
.060	4" X 300'	.120	8" X 10
.060	6" X 300'	.120	12" X 105'
.080	8" X 105'	.160	16" X 75'
.080	12" X 105'		
.080	48" X 60'		

Call E&T for other sizes



Colors, textures, temperature rated grades available



Ultra high molecular weight polyethylene

[UHMW-PE] exhibits the best properties of all the polyolefin family. Among its excellent properties are:

- Outstanding abrasion resistance
- Excellent lubricity
- High impact strength
- Zero moisture absorption
- Outstanding chemical and corrosion resistance
- USDA/FDA/NSF compliant

The lubricity and abrasion resistance provide many of the applications for UHMW. Conveyor guide rails, chain wear guides, bushings, rollers, and noise abatement impact plates are prime candidates for UHMW. Because of its natural white color, it is used extensively in the food and pharmaceutical industries. UHMW can be modified with various fillers, including ceramic and oil. UHMW is also available using reprocessed resins.

Other UHMW Shapes Available:

- Square bar
- Angles
- Dog bone
- Rectangular bar
- U-Channels
- Tubular bar
- Clip on shapes

UHMW SHEET

Natural, White Virgin, Repro Green or Black

Thickness	Lb./SF	Thickness	Lb./SF	Thickness	Lb./SF
.125	.63	1.000	5.00	2.750	13.75
.187	.94	1.250	6.25	3.000	15.00
.250	1.25	1.500	7.50	3.250	16.25
.375	1.97	1.750	8.75	3.500	17.50
.500	2.50	2.000	10.00	4.000	20.00
.625	3.13	2.250	11.25	5.000	25.00
.750	3.75	2.500	12.50	6.000	30.00

Standard sheet sizes - 48" X 120", 48" X 96" and 60" x 120" available in some thicknesses. Cut to size on request. Glass fiber backed sheets on request. Tolerances - +/-10% on thickness. Plus only tolerance available.



UHMW ROD

Natural Virgin White, Repro Green Or Black

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.250	.03	1.625	.91	4.000	5.52
.375	.05	1.750	1.06	4.250	6.23
.500	.08	2.000	1.38	4.500	7.00
.625	.13	2.250	1.75	5.000	8.61
.750	.18	2.500	2.16	5.500	10.46
.875	.25	2.750	2.85	6.000	12.45
1.000	.33	3.000	3.11	6.500	14.59
1.250	.52	3.250	3.64	7.000	16.94
1.375	.65	3.500	4.23	8.000	22.13
1.500	.78	3.750	4.85		

Standard length - 10 feet. Cut to size on request.

Tolerances - Oversized to finish to nominal diameter.

UHMW TAPE

Thickness: .005

With or without .010

adhesive .015

.020

all widths available .030

From .500" To 18" .040

Standard roll - 54 feet. .060

Please contact your E&T branch for all UHMW requirements.

Polyethylene

The family of polyethylenes vary in molecular weight, or densities, and exhibit varying degrees of properties. Other than UHMW, the main types of polyethylene are LDPE & HDPE:

LOW DENSITY (LDPE)

LDPE offers chemical resistance, flexibility, translucency, and good thermoformability. Sheets are available "as extruded" or "stress relieved". In stress relieved, heat is applied after the extrusion process, thus providing a flatter sheet.

LOW DENSITY POLYETHYLENE PROPERTIES

- Lightweight
- Good impact resistance
- Extremely flexible
- Easily cleaned

The main difference between low density and high density polyethylene is low density's flexibility. The main application for LDPE sheet is prosthetic devices. Most of these are either drape formed or vacuum formed.

Typical Applications:

Prosthetic Devices
Vacuum Formed Parts
Fabricated Parts

LOW DENSITY POLYETHYLENE SHEET

LDPE Natural					
Thickness	LB./Sf	Thickness	LB./Sf	Thickness	LB./Sf
.031	.148	.250	1.19	1.000	4.77
.062	.296	.375	1.79	1.250	5.96
.093	.443	.500	2.38	1.500	7.15
.125	.596	.625	2.98	1.750	8.34
.187	.891	.750	3.58	2.000	9.53
Standard sheet size - 48" x 96".					
Other sizes and cut to size on request.					
Tolerances:					
		.031	+/-10%		
		.062 - .500	+/-5%		
		.625 & over	+/-10%		

LOW DENSITY POLYETHYLENE ROD

LDPE Natural					
DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.250	.019	1.500	.702	3.750	4.39
.375	.044	1.750	.955	4.000	4.99
.500	.078	2.000	1.25	4.500	6.31
.625	.122	2.250	1.58	5.000	7.80
.750	.175	2.500	1.95	5.500	9.43
.875	.239	2.750	2.36	6.000	11.2
1.000	.312	3.000	2.81	7.000	15.3
1.250	.487	3.250	3.29	8.000	20.0
1.375	.590	3.500	3.82		
Standard length - 10 feet. Cut to size on request.					
Tolerances: Sufficiently oversized to finish to nominal dimension.					

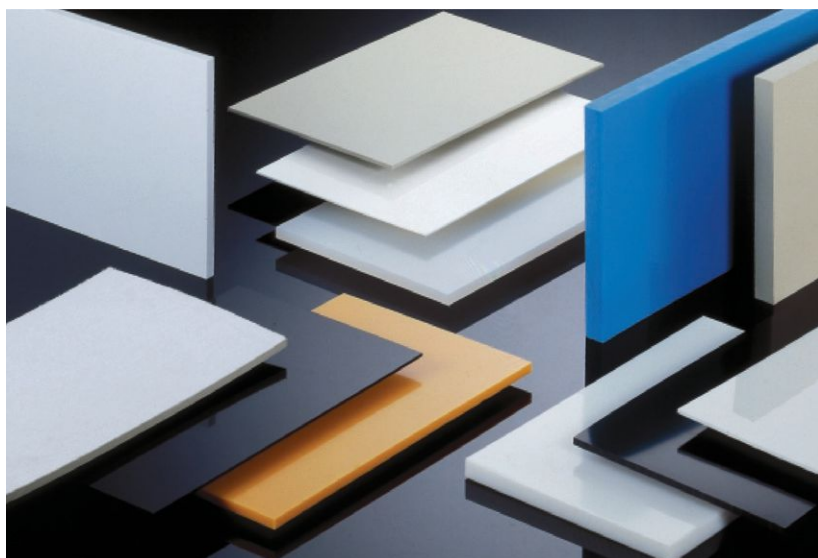
LDPE

LOW DENSITY POLYETHEYLENE TUBING

I.D.	O.D.	MAX. PSI 70°	I.D.	O.D.	MAX. PSI 70°	I.D.	O.D.	MAX. PSI 70°
1/8	1/4	171	3/8	5/8	128	7/8	1	34
1/8	3/8	256	1/2	5/8	57	1	1-1/8	30
.170	.250	97		3/4	103		1-1/4	57
3/16	5/16	128	.600	.750	57	1-1/8	1-3/8	51
1/4	3/8	103	5/8	3/4	47	1-1/4	1-1/2	47
1/4	1/2	171		7/8	85	1-3/8	1-5/8	43
5/16	7/16	85	3/4	7/8	40	1-1/2	1-3/4	39
5/16	1/2	120		1	74	1-3/4	2	34
3/8	1/2	74	.814	1.000	53	2	2-1/4	30
Standard coil - 100 feet. Standard coil - 100 feet.								

Natural Color, Stress Relieved

Gauge (in.)	Weight (lbs./sheet)
1/16	9.6
3/32	14.1
1/8	19.2
3/16	28.8
1/4	38.4
3/8	57.6
1/2	76.8
5/8	96.0
3/4	115.2
1	153.6
Sheet Size: 48" x 96"	



High Density (HDPE)

Representing the largest portion of our polyethylene business, high density polyethylene has a variety of applications within many different industries. This product is available in both extruded (up to 1" thick) and pressed sheet from 1-1/4" through 4" thick. Available in natural & black. Our standard HDPE offering is smooth on both sides. The following pages feature cutting board and Star Board with curable textured finish.

HDPE

Natural Color, Stress Relieved

Gauge (in.)	Weight (lbs./sheet)
1/16	10.1
3/32	15.2
1/8	20.2
3/16	30.3
1/4	40.4
3/8	60.6
1/2	80.8
5/8	101.0
3/4	121.2
1	161.6
1 1/4	202.0
1 1/2	242.4
1 3/4	282.8
2	323.3
2 1/4	363.7
2 1/2	404.1
2 3/4	444.5
3	484.9
3 1/4	525.3
3 1/2	565.7
4	646.5

Standard sheet size - 48" x 96".

Other sizes & cut to size on request.

Tolerances: .031 +/-10%
 .062 - .500 +/-5%
 .625 & over +/-10%

HIGH DENSITY POLYETHEYLENE TUBING

I.D.	O.D.	MAX. PSI 70°	I.D.	O.D.	MAX. PSI 70°	I.D.	O.D.	MAX. PSI 70°
1/8	1/4	282	1/2	5/8	94	7/8	1	56
.170	.250	161	.600	.750	94	1	1-1/4	94
3/16	5/16	211	5/8	3/4	77	1-1/4	1-1/2	77
1/4	3/8	169	3/4	7/8	65	1-1/2	1-3/4	65
5/16	7/16	133	3/4	1	121	1-3/4	2	56
3/8	1/2	121	.814	1.000	87	2	2-1/4	50

Standard coil - 100 feet. Standard coil - 100 feet.

HIGH DENSITY POLYETHYLENE ROD

LDPE Natural

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.250	.020	1.500	.729	3.750	4.57
.375	.046	1.750	.997	4.000	5.19
.500	.081	2.000	1.30	4.500	6.58
.625	.126	2.250	1.64	5.000	8.10
.750	.182	2.500	2.02	5.500	9.84
.875	.248	2.750	2.46	6.000	11.8
1.000	.324	3.000	2.93	7.000	15.9
1.250	.508	3.250	3.52	8.000	20.8
1.375	.614	3.500	3.98		

Standard length - 10 feet. Cut to size on request.

Tolerances: Sufficiently oversized to finish to nominal dimension.



Great for construction
 manufacturing and
 maintenance

The Ultimate Marine Building Material

King StarBoard® was the first building material developed specifically to withstand the constant punishment of the sun, water and weather in harsh marine environments. Only King Plastic Corporation offers a complete family of specialty marine-grade materials which are designed to be used together for a perfect color, texture, thickness and flatness match.

King Colorboard® Standard Colors

- White/White
- Arctic White
- Seafoam
- Black
- Sansshade
- Dolphin Gray
- Sea Pearl
- Light Gray

Specialty Colors

- Cruiser White
- Fish White
- Stone Grey
- Suede

Not always in stock, but can be produced quickly to match common specialty colors.

Premium Speckletone Colors

- Ivory Speckletone
- Ivory Essence
- Black Speckletone
- Tan Speckletone

Note: For absolute color matches, contact your King StarBoard® distributor for a sample.



Standard Sheet Sizes

Gauge (in.)	Weight (lbs./sheet)	Sheet Size (in.)
1/4	45	48" x 96"
3/8	67.5	48" x 96"
1/2	90	48" x 96"
3/4	135	48" x 96"
1	180	48" x 96"
1-1/2	240	48" x 96"

Standard Colors



Indoor/Outdoor Cabinetry & Point of Purchase Display Materials

Designboard® HDPE

VYCOM'S Designboard® family of materials provides a new, trend-setting addition to our color and texture palette. Whether you are looking for rich designer shades or the toughness of HDPE with the brilliance of metal, our product has superior performance. Unlike wood or metal alternatives, our products will not rust, corrode, rot, delaminate, or splinter. With their superior scratch resistance, stiffness, and UV packages, our HDPE products are ideal for a wide range of applications, from outdoor cabinetry, to POP displays, signage and more.



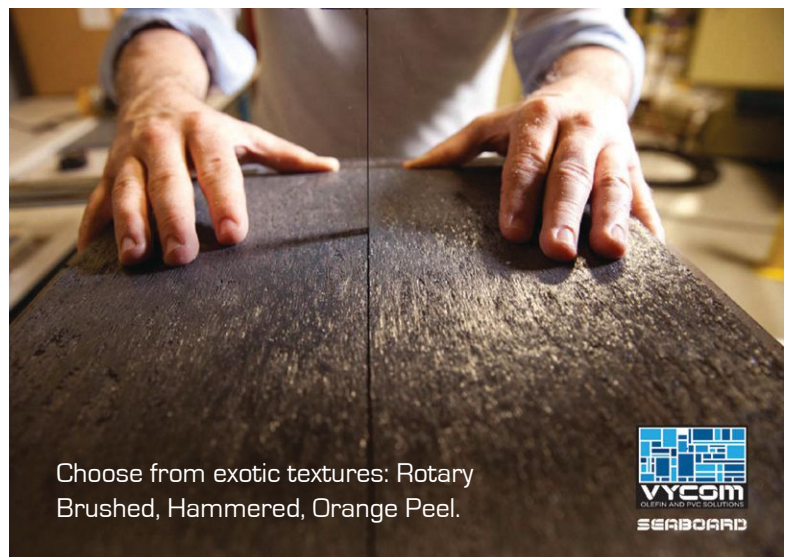
Available in stock sheets 48" X 96" and standard thicknesses 1/2" and 3/4".
Choose from unique colors: Stainless Steel, Nickel, Bronze, Java and Shale.
Custom sizes available upon request.
Minimums may apply.

SEABOARD® ENDURABOND® Polyvinyl chloride, PVC, is one of the most popular plastics used in building and construction. PVC provides a modern alternative to traditional materials such as wood, metal, rubber and glass. The advantages include; lighter weight, less expensive, easy to fabricate and resistant to water and chemicals.

ENDURABOND® features a course surface which provides optimal adhesion characteristics, and the product is engineered to have high screw retention.

ENDURABOND® will not rot, warp, rust, delaminate or splinter.

Available in 48" X 96" sheets in thicknesses from 1/4" - 1-1/8".



Choose from exotic textures: Rotary Brushed, Hammered, Orange Peel.

Engravable Polymer Sheet

If you want to keep your bright ideas looking bright for years, King ColorCore® and King ColorBoard® polymer sheets are the versatile, durable and colorfast competitive edge you're looking for.

Both are environmentally stabilized for a lifetime of worry-free use in harsh outdoor environments. King ColorCore® and King ColorBoard® are also available in several gauges and a rainbow of matched colors.

King ColorCore's unique PolyFusion™ process is a proprietary technology that fuses contrasting layers of colors into a single homogeneous sheet. It's ideal for engraved signage in high-exposure playground, recreational and marine applications.



KING COLORBOARD®

Polymer Sheets for Colorful Creations

King Colorcore®

- Outlasts wood and vinyl signs with virtually no maintenance.
- Proprietary PolyFusion™ technology fuses multiple layers into a single, homogenous sheet.
- Waterproof—won't rot, swell or delaminate.
- Environmentally stabilized for high-exposure accessories and components in commercial or industrial applications.
- Easily forms for smooth contours and bends.
- Custom colors available by special order.
- Cap color thickness is approximately 10% of nominal thickness. These thinner caps allow for faster CNC production speeds and detailed designs

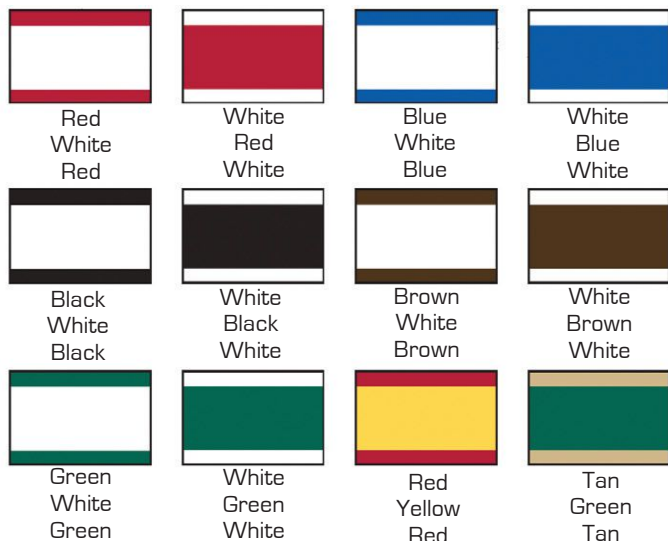
KING COLORCORE®

Engravable Polymer Sheets

King Colorcore®

- Engravable polymer sheet for outdoor signage, tool areas, parks, playgrounds, pictograms and other applications.
- Outlasts wood and vinyl signs with virtually no maintenance.
- Proprietary PolyFusion™ technology fuses multiple layers into a single, homogenous sheet.
- Waterproof—won't rot, swell or delaminate.
- Environmentally stabilized for high-exposure accessories and components in commercial or industrial applications.

King Colorcore® Standard Colors*



King Colorboard® Standard Colors*



Polymer Cutting Board

Introducing a material that is durable, lightweight, non-absorbent and resistant to chemicals. High Density Polyethylene is an alternative to wood, metal, ceramic etc. for your kitchen or workstation. E & T Plastics offers full sheets, (sizes listed below) cut to your custom size or fabricated to your unique specification.

Stock Sizes: 48 x 96
48 x 120
60 x 120

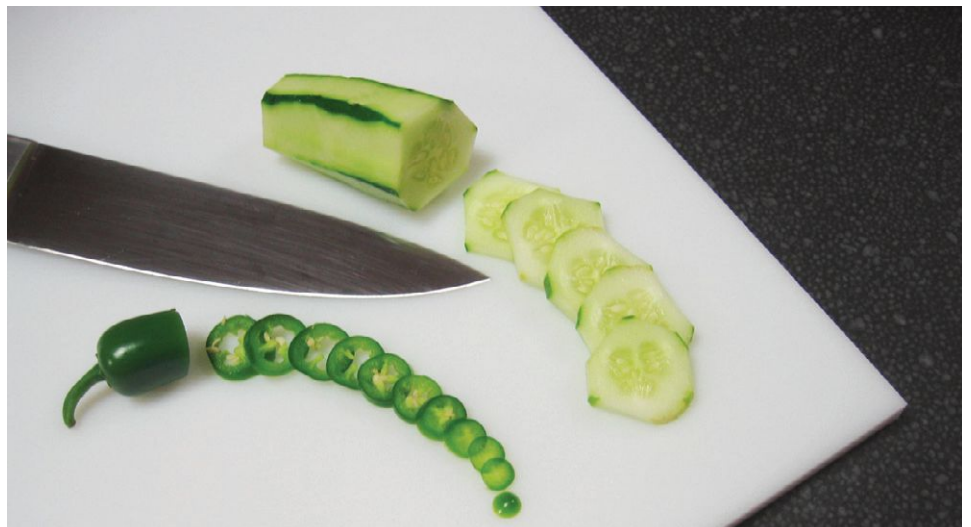
Thickness: 1/4"
1/2"
5/8"
3/4"
1"
1 1/4"
1 1/2"
2"

Color Choices: Natural

Special Order: ☐ Yellow
☐ Green
☐ Blue
☐ Tan
☐ Black

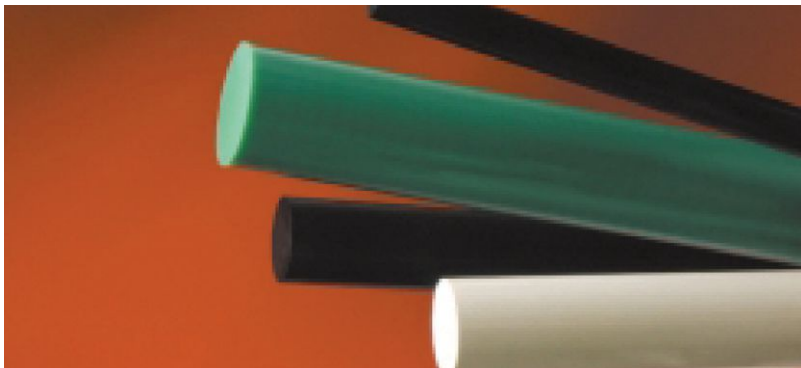
- NSF/ANSI approved for food equipment and materials
- FDA 21CFR77 approved

HIGH DENSITY (HDPE) - HDPE also offers good chemical resistance, but is stiffer and has greater compressive strength than LDPE. HDPE is USDA/FDA/NSF compliant. It is solid white and used in many food applications, including cutting boards. It is also available stress relieved.



Polypropylene

This is another member of the polyolefin family. Compared to the polyethylenes, it is stiffer, has greater surface hardness, and greater compressive strength. Like the other polyolefins, it offers great chemical and corrosion resistance. It is often welded and used for plating barrels, tanks, and hoods. It can also be thermoformed and is used extensively as a prosthetic material. Polypropylene can also be pigmented white for aesthetic applications.



Did you know that E&T Plastics can machine these materials?

POLYPROPYLENE TUBING

I.D.	O.D.	MAX. PSI 70°	I.D.	O.D.	MAX. PSI 70°	I.D.	O.D.	MAX. PSI 70°
1/8	1/4	272	1/2	5/8	87	1	1-1/4	87
.170	.250	149	.600	.750	87	1-1/4	1-1/2	71
3/16	5/16	196	5/8	3/4	71	1-1/2	1-3/4	60
1/4	3/8	157	.814	1.000	80	1-3/4	2	52
3/8	1/2	112	7/8	1	5			

Standard coil - 100 feet.

POLYPROPYLENE ROD

LDPE Natural

DIAM.	LB/FT	DIAM.	LB/FT	DIAM.	LB/FT
.250	.019	1.500	.688	3.750	4.31
.375	.043	1.750	.941	4.000	4.90
.500	.076	2.000	1.23	4.500	6.21
.625	.119	2.250	1.55	5.000	7.64
.750	.172	2.500	1.91	5.500	9.28
.875	.234	2.750	2.32	6.000	11.1
1.000	.306	3.000	2.76	7.000	15.0
1.250	.479	3.250	3.23	8.000	19.6
1.375	.579	3.500	3.75		

Standard length - 10 feet. Cut to size on request

Tolerances: Sufficiently oversized to finish to nominal dimension.

POLYPROPYLENE WELDING ROD

Diameter	Triangular	Feet/Lb
1/8"	1/8"	220
5/32"	5/32"	180
3/16"	3/16"	95

Standard coil - 15 pounds. Straight lengths also available.

POLYPROPYLENE SHEET

Natural

Thickness	LB./Sf	Thickness	LB./Sf.	Thickness	LB./Sf.
.031	.146	.250	1.18	1.000	4.70
.062	.292	.375	1.76	1.250	5.88
.093	.438	.500	2.35	1.500	7.06
.125	.588	.625	2.94	1.750	8.23
.187	.880	.750	3.52	2.000	9.41

Standard sheet size - 48" x 96". Other sizes & cut to size on request.

Tolerances:

.031	+/-10%
.062 - .500	+/-5%
.625 & over	+/-10%

Orthotic & Prosthetic Grades

The polyolefins (polypropylene, LDPE, and HDPE) are used extensively for prosthetic and orthotic applications. This is due to their light weight, low temperature formability, smooth and slippery surface, and a range of stiffness depending on the material. These polyolefins are available in their natural colors, as well as white and black.

If clarity is desired for a particular device, VIVAK® is also used. Contact E&T for more information.

WELD-ON® INDUSTRIAL ASSEMBLY ADHESIVE SELECTION GUIDE

ABS	Acrylic Cell Cast	Acrylic Cross-Linked	Acrylic Extruded	Butyrate	Concrete	Fiberglass	Metal	PETG	Polycarbonate	Polyester	Polyurethane	PVC (Rigid)	PVC (Flexible)	PVC (Foamed)	Styrene	Wood	
2354 1707/4707 55/58	16 1802 40/42	10 40/42	16 1802 40/42	16 55/58 40/42	10 45	10 45	45 10	16 55/58 40/42	16 55/58 40/42	40/42 10	66 4784 55/58	10 16/4052 45	45	16 40/42 45	16 1802	45	ABS
16 1802 40/42	40/42 3/4 16	10 40/42	40/42 3/4 16	16 40/42 45	10 45	10 45	10 45	10 40/42 16	16 40/42 45	40/42 10	66 4784	40/42 16 4052	45	16 40/42 45	16 4052 10	45	Acrylic Cell Cast
10 40/42	10 40/42	10 40/42	10 40/42	40/42 10 45	10 45	10 45	10 45	10 40/42 45	10 40/42 45	40/42 10	40/42 10	10 40/42 45	45	40/42 45	10 40/42	10 45	Acrylic Cross-Linked
16 1802 40/42	40/42 3/4 16	10 40/42	40/42 3/4 16	16 40/42 45	10 45	10 45	10 45	10 40/42 16	10 40/42 45	40/42 10	66 4784	40/42 16 4052	45	16 40/42 45	16 4052 10	45	Acrylic Extruded
16 55/58 45/40/42	16 40/42 45	40/42 10 45	16 40/42 45	3/2007 16 55/58	10 45	10 45	45 10	16 55/58 40/42	16 55/58 40/42	40/42 10 45	66 4784 55/58	16 55/58 40/42	66 4784 45	66 40/42 45	1802 16 45	45 10	Butyrate
10 45	10 45	10 45	10 45	10 45	10 45	10 45	10 45	10 45	10 45	10 45	10	10 45	45	10 45	10 45	10 45	Concrete
10 45	10 45	10 45	10 45	10 45	10 45	10 45	10 45	10 45	10 45	10 45	10	10 45	45	10 45	10 45	10 45	Fiberglass
45 10	10 45	10 45	10 45	45 10	10 45	10 45	10 45	10 45	10 45	10 45	10	10 45	45	45 10	10 45	10 45	Metal
16 55/58 40/42	10 40/42 16	10 40/42 45	10 40/42 16	16 55/58 40/42	10 45	10 45	10 45	55/58 3/4 40/42	55/58 40/42 45	40/42 45	10	10 40/42 16	45	16 40/42 45	16 10	45	PETG
16 55/58 40/42	16 40/42 45	10 40/42 45	10 40/42 45	16 55/58 40/42	10 45	10 45	10 45	55/58 40/42 45	55/58 3/4 16	40/42 10 45	10	40/42 10 16	45	16 40/42 45	10 16 1802	45	Polycarbonate
40/42 10	40/42 10	40/42 10	40/42 10	40/42 10 45	10 45	10 45	10 45	40/42 45	40/42 10 45	40/42 10 45	10 1829	40/42 10	45	10 40/42 45	40/42 10	10 1829	Polyester
66 4784 55/58	66 4784	40/42 10	66 4784	66 4784 55/58	10	10	10	10	10	10 1829	66 4784 55/58	66 4784	66 4784 45	66 4784	10 45	45	Polyurethane
10 16/4052 45	40/42 16 4052	10 40/42 45	40/42 16 4052	16 55/58 40/42	10 45	10 45	10 45	10 40/42 16	40/42 10 16	40/42 10	66 4784	2007 10/40/42 1007/4007	2007 45	16 2007 40/42/45	10 16 1802	45	PVC (Rigid)
45	45	45	45	66 4784 45	45	45	45	45	45	45	66 4784 45	2007 45	2007 66/4784 45	2007 45	2007 45	45	PVC (Flexible)
16 40/42 45	16 40/42 45	40/42 45	16 40/42 45	16 40/42 45	10 45	10 45	45 10	16 40/42 45	16 40/42 45	10 40/42 45	66 4784	16 2007 40/42/45	2007 45	2007 16 40/42/45	1802 16 45	45 10	PVC (Foamed)
16 1802	16 4052 10	10 40/42	16 4052 10	1802 16 45	10 45	10 45	10 45	16 10	10 16 1802	40/42 10	10 45	10 16 1802	2007 45	1802 16 45	4807 16 1802	45	Styrene
45	45	10 45	45	45 10	10 45	10 45	10 45	45	45	10 1829	45	45	45	45 10	45	45	Wood

ABS

1707: Medium bodied, fast setting, cement for bonding ABS only.

2354: Thin-bodied, fast setting cement for bonding ABS and styrene to themselves. Not for joining dissimilar materials.

4707*: Low VOC version of 1707 Polycarbonate.

55*: VOC-free, two-component, slow-setting, reactive, urethane-based adhesive for bonding polycarbonate, butyrate, ABS, and PETG to themselves and each other. Excellent UV light resistance. No VOC

58*: VOC-free, two-component, fast-setting, reactive, urethane-based adhesive for bonding polycarbonate, butyrate, ABS, and PETG to themselves and each other. Excellent UV light resistance. No VOC



Styrene

4807*: Medium bodied, fast setting cement for joining styrene to itself. Low VOC

Structural

10*: Two-component, high strength, high viscosity structural adhesive for bonding PVC, acrylic, ABS, and polycarbonate. Also bonds well to steel, non-anodized aluminum, other metals, etc. Low VOC

3061*: Thinner for Acrylic Cement #40 Component A (Acrylic Monomer). Low VOC

Now Available:

General purpose two-part adhesive kits.

Ideal for dissimilar materials.

• **Weld-On 55.....clear** for polycarbonate

• **Weld-On 45.....off-white color**

Adhesive, applicator gun and mixing tip required.



Novus Polishes... The Professional & Expert Choice



Novus products are recommended for use on acrylic, polycarbonate and PETG. 8oz. bottles shown here. 64oz. also available.

NOVUS 1: Plastic Clean & Shine

Gently cleans all plastics without scratching. Leaves a lustrous shine that resists fogging, repels dust, and eliminates static.

- Resists finger marking
- Contains no abrasives or harsh chemicals
- Leaves a smooth, clean, greaseless shine

NOVUS 2: Fine Scratch Remover

Removes fine scratches, haziness and abrasions from most plastics. With repeated use, NOVUS No. 2 restores faded and discolored plastics.

NOVUS 3: Heavy Scratch Remover

Removes heavy scratches and abrasions from most acrylic surfaces. Use when damage is too severe to be restored with NOVUS No. 2 polish.

- Removes the damage instead of filling it in
 - Buffs out quickly
 - After restoring, seals with a coat of polish
- Requires use of NOVUS No. 2 for final finishing
Not recommended for use on coated plastics

NOVUS Polish Mates

The type of polishing cloth you use will make a difference. Ideal cloth is nonabrasive, absorbent, and lint free. To eliminate any chance of scratching, use only disposable cloths. Reusable cloths can retain abrasive particles, but you won't know for sure until the damage is done.

NOVUS Polish Mates are sold in convenient 6-Packs or in bulk.





Acrylics

3#: Non-flammable, water thin, very fast-setting solvent cement for bonding acrylics. Also bonds styrene, butyrate, PETG, and polycarbonate to themselves. Will not bond to cross linked acrylics. Low VOC

4*: Water thin, moderately fast-setting solvent cement for bonding acrylics. Also bonds styrene, butyrate, PETG, and polycarbonate to themselves. Will not bond to cross linked acrylics. Low VOC

16*: Fast-setting, medium bodied, high strength acrylic cement. Also bonds rigid PVC, ABS, styrene, butyrate, polycarbonate to themselves and each other, as well as other plastics and porous surfaces. Low VOC

28*: Three-component, reactive, high strength acrylic based adhesive. Good weatherability. Meets Mil Spec A-8576C Type II. Low VOC

40*: Two-component, reactive, high strength cement for bonding and fabricating all acrylics to each other and to polyester, butyrate, PVC, ABS, PETG, etc. Meets Mil Spec A-8576C Type III. Low VOC

42*: Has the same physical properties as #40, but is packaged in a two component cartridge for use with a dispensing gun and mixing tip. Low VOC

1802: Medium-setting, light bodied cement for bonding acrylic, styrene, rigid PVC, ABS, and butyrate to themselves.

Vinyls

66: Thin-bodied, fast-curing, versatile contact cement for bonding flexible or rigid vinyl to itself or to urethane, leather, canvas, ABS, foamed PVC, butyrate, and wood.

1001*: Thin-bodied, slow setting cement for bonding flexible or rigid vinyl, foamed PVC, ABS, acrylic, and non-plastics to themselves and each other. Useful for bonding rigid or semi-rigid vinyl to aluminum, glass, wood, and other rigid materials. Low VOC

1007: Thin-bodied, very fast-setting cement for bonding rigid vinyl, foamed PVC, and Kydex®.

1909: Medium-bodied, fast-setting cement for bonding flexible vinyl to itself or other plastics, as well as to some porous materials such as wood, leather, etc. Water resistant.

1910: Heavy-bodied, slow-setting cement for bonding flexible or rigid vinyl to itself or other plastics, as well as to some porous materials such as wood, leather, etc. Water resistant.



2007: Water thin, very fast-setting solvent cement for bonding PVC, foamed PVC, and Kydex® to themselves and to each other.

4007*: Low VOC version of 1007.

4052*: Multipurpose, medium-bodied cement for bonding PVC, CPVC, ABS, styrene, Noryl®, and foamed PVC. Low VOC

4784*: Medium-bodied, fast-setting cement for bonding flexible vinyl to itself or other plastics (e.g. ABS, butyrate, rigid PVC, acrylic, etc.) as well as to some porous materials such as wood, leather, and canvas. Weather resistant. Low VOC

4909*:
Low VOC version of 1909.

* These products meet maximum VOC requirements of South Coast Air Quality Management District (SCAQMD) Rule 1168.

These products are not available in SCAQMD.

Appendix Key for Technical Info

Property		ASTM	UNITS	ABS	Acetal	Acetal TFE	Acrylic cell cast	Acrylic extrud.	CAB	CPVC	Nylon 6/6 extrud.	Nylon 6 cast	Nylon 6/6 30% glass	PBT	HDPE	LDPE	UHMW PE
Trade Name				Delrin	Delrin AF		Cyro GP	Optix			Nylon 101		Vekton	Valox			
Mechanical	Specific gravity	D 792	g/cm3	1.04	1.41	1.49	1.19	1.19	1.20	1.52	1.14	1.15	1.35	1.31	.955	.915	.934
	Tensile strength at break	D 638	p.s.i.	6,100	10,000	7,600	10,000	10,100	5,221	8,200	12,400	12,500	27,000	7,500	4,600	2,000	6,200
	Elongation at break	D 638	%	20	75	22	4.2	5.1	33.9	27	90	10-40	3	200	900	600	600
	Tensile modulus	D 638	p.s.i.	3.1x10 ⁵	4.5x10 ⁵	4.2x10 ⁵	4.0x10 ⁵	4.3x10 ⁵	2.2x10 ⁵	4.3x10 ⁵	4.7x10 ⁵	4.0x10 ⁵	14x10 ⁵	3.9x10 ⁵	1.6x10 ⁵	.34x10 ⁵	1.5x10 ⁵
	Compressive strength	D 695	p.s.i.	6,700	16,000	13,000	18,000	—	4,500	11,400	12,000	15,000	—	11,000	3,600	—	—
	Rockwell hardness	D 785	—	R105	R120	R118	M-94	M-93	R81	R121	R120	R118	M101	R1171	69(D)	50(D)	65(D)
	Impact strength notched izod	D 256	ft-lb./in	7.5	2.3	1.2	0.4	0.4	4.4	1.6	1.2	1.8	2.1	1.0	3.0	no break	no break
	Flexural strength	D 790	p.s.i.	10,500	14,300	10,500	16,500	14,600	6,500	15,000	17,000	15,000	39,100	12,000	1,000	—	—
	Flexural modulus	D 790	p.s.i.	3.4x10 ⁵	3.8x10 ⁵	3.4x10 ⁵	4.7x10 ⁵	—	2.3x10 ⁵	4.1x10 ⁵	4.1x10 ⁵	3.5x10 ⁵	12x10 ⁵	3.4x10 ⁵	2x10 ⁵	—	1.1x10 ⁵
	Wear factor against steel	—	in ³ min/ft ² lb./hr	35x10 ⁻⁸	55x10 ⁻¹⁰	13x10 ⁻¹⁰	—	—	—	—	2x10 ⁻⁸	2x10 ⁻⁸	75x10 ⁻¹⁰	2.1x10 ⁻⁸	—	—	—
	Coefficient of friction	—	40psi 50fpm	0.35	0.20	.16	—	—	—	—	0.28	0.26	0.31	.25	—	—	.12
Thermal	Melting point		°F	—	347	347	380	315	—	—	491	428	491	420	—	—	275
	Heat deflection @ 66 psi	D 648	°F	230	342	334	—	205	196	230	455	370	490	310	172	110	
	Heat deflection @ 264 psi	D 648	°F	220	277	215	210	190	181	212	194	200	482	130	130	100	
	Max service temp. short term	—	°F	210	300	300	200	—	—	—	355	330	465	350	212	180	
	Max service temp. long term	—	°F	160	185	185	180	170	180	200	200	180	230	245	180	160	
	Coefficient of linear thermal expansion	D 696	in/in/°F x 10 ⁻⁵	4.1x10 ⁻⁵	6.8x10 ⁻⁵	5.2x10 ⁻⁵	3.4x10 ⁻⁵	3.6x10 ⁻⁵	—	3.7x10 ⁻⁵	4.5x10 ⁻⁵	4.5x10 ⁻⁵	1.2x10 ⁻⁵	4.5x10 ⁻⁵	1x10 ⁻⁴	1.6x10 ⁻⁴	
Electric	Dielectric constant 60hz	D 150	—	3.3	3.7	3.1	3.5	—	—	—	4.0	3.7	3.5	3.3	2.35	2.35	2.3
	Dissipation factor 60hz	D 150	—	0.02	0.005	0.009	.06	—	—	—	0.01	0.02	0.014	0.002	<.0005	<.0005	
	Volume resistivity	D 257	ohm-cm	10 ¹⁵	10 ¹⁵	3x10 ¹⁶	1.6x10 ¹⁶	—	—	—	10 ¹⁵	10 ¹⁴	10 ¹⁵	4.0x10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁸
	Dielectric strength	D 149	v/mil	450	500	400	430	—	325	1060	400	400	530	590	500	750	600
MISC.	Water absorption 24 hr.	D 570	% by wt.	0.30	0.25	0.2	.05	.4	1.4	0.04	1.2	2.0	0.7	0.10	<.01	<.01	<.01
	Water absorption saturation	D 570	% by wt.	0.70	0.09	0.72	1.1	—	—	—	8.5	6.0	5.4	0.40	<.01	<.01	<.01
	UL-94 Flammability	—	—	HB	HB	HB	—	—	—	V-0	HB	HB	HB	HB	—	—	—

Appendix Key for Technical Info

PEEK	PEI	PET	PETG	Phenolic C	Phenolic CE	Phenolic L	Phenolic LE	Phenolic XX	Polycarbonate	Polycarbonate	Polypropylene	PSO	Poly-styrene	PPO	PPS	PVC Type I	PVC Type II	PVDF	PTFE
	Ultem 1000	Ensitemp	Vivak	Micarta	Micarta	Micarta	Micarta	Micarta	Hyzod GP	Mechanical		Poly-sulfone	High impact	Noryl EN265				Kynar	Teflon
1.32	1.27	1.38	1.27	1.37	1.37	1.34	1.34	1.38	1.20	1.20	.905	1.24	1.08	1.06	1.35	1.4	1.4	1.78	2.18
14,500	15,200	11,500	6,990	12,000	11,000	14,000	13,000	14,500	9,500	9,000	4,800	10,200	4,000	9,600	12,500	7,400	6,000	7,000	3,000
50	60	70	75	—	—	—	—	—	100	130	12	50-100	50	30	4	100	90	60	300
4.9x10 ⁵	4.3x10 ⁵	4.0x10 ⁵	3.0x10 ⁵	—	—	—	—	—	3.4x10 ⁵	3.1x10 ⁵	1.9x10 ⁵	3.6x10 ⁵	2.6x10 ⁵	3.5x10 ⁵	4.8x10 ⁵	4.1x10 ⁵	3.4x10 ⁵	3.5x10 ⁵	.58x10 ⁵
17,000	21,900	15,000	—	38,000	36,000	38,000	36,000	30,000	10,400	9,500	6,700	13,900	6,000	16,500	18,000	10,000	8,600	—	1,700
R126	M109	R117	M95	M100	M100	M100	M100	M100	R118	R118	R92	R120	R70	R119	M93	R114	R108	R83	60(D)
1.6	1.0	0.7	—	2.3	1.8	1.7	1.35	0.55	12-16	17.0	1.9	1.3	1.5	5.0	0.5	1.25	2.0	2.5	3.0
24,600	22,000	15,000	11,240	20,000	19,000	24,500	22,000	22,000	13,500	14,200	7,000	15,400	7,500	13,500	21,000	11,000	9,000	15,000	—
5.9x10 ⁵	4.8x10 ⁵	4.0x10 ⁵	3.1x10 ⁵	—	—	—	—	—	3.4x10 ⁵	3.4x10 ⁵	1.8x10 ⁵	3.9x10 ⁵	3.7x10 ⁵	3.6x10 ⁵	6.0x10 ⁵	4.2x10 ⁵	—	3.3x10 ⁵	1.0x10 ⁵
2.0x10 ⁻⁸	4.0x10 ⁻⁷	2.1x10 ⁻⁸	—	—	—	—	—	—	—	2.5x10 ⁻⁷	—	1.5x10 ⁻⁷	—	3.0x10 ⁻⁷	5.4x10 ⁻⁸	—	—	1.0x10 ⁻⁷	—
.25	.17	.25	—	—	—	—	—	—	—	0.38	—	0.37	—	0.39	0.24	—	—	0.24	0.05
644	426	490	180	—	—	—	—	—	—	—	—	—	—	310	540	360	—	345	621
—	410	240	145	—	—	—	—	—	280	285	210	358	—	279	390	168	165	280	250
320	392	175	—	—	—	—	—	—	270	270	130	345	—	265	221	161	155	188	115
600	380	320	140	257	257	257	257	248	250	275	180	340	160	230	—	—	—	340	550
480	338	230	140	257	257	257	257	248	250	240	180	285	140	220	220	160	—	285	500
2.6x10 ⁻⁵	3.1x10 ⁻⁵	3.9x10 ⁻⁵	3.0x10 ⁻⁵	1.1x10 ⁻⁵	1.1x10 ⁻⁵	1.0x10 ⁻⁵	1.0x10 ⁻⁵	8.3x10 ⁻⁵	3.7x10 ⁻⁵	3.7x10 ⁻⁵	1.2x10 ⁻⁵	3.1x10 ⁻⁵	—	3.3x10 ⁻⁵	4.9x10 ⁻⁵	3.2x10 ⁻⁵	3.9x10 ⁻⁵	7.1x10 ⁻⁵	5.5x10 ⁻⁵
3.2	3.2	3.4	3.46	—	—	—	—	—	3.17	3.2	2.5	3.1	3.0	2.7	3.0	3.3	3.5	10.0	2.1
.003	.001	.002	—	.053	.045	.055	.053	.039	—	.001	<.0005	.001	.001	.001	0.001	.013	.07	0.06	<.0003
4.9x10 ¹⁶	6.7x10 ¹⁷	10 ¹⁶	6.0x10 ¹⁵	—	—	—	—	—	10 ¹⁶	10 ¹⁷	—	5x10 ¹⁶	10 ¹⁶	10 ¹⁷	10 ¹⁶	10 ¹⁵	10 ¹⁵	5.0x10 ¹⁴	10 ¹⁷
480	830	400	420	500	550	575	625	750	380	380	500	420	600	500	450	552	335	280	500
.50	.25	.10	—	1.8	1.1	1.3	1.0	0.5	.15	.15	.008	0.30	0.5	0.07	0.01	0.04	0.04	0.04	<0.01
.50	1.25	.50	—	4.0	2.2	2.5	1.5	1.5	.35	.35	—	.062	—	0.20	—	—	—	0.10	<0.01
V-0	V-0	HB	—	—	—	—	—	—	—	V-2	—	V-0	—	V-1	V-0	—	—	V-0	—

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