



Materials / Substrates:

Vinyl Cut Graphics:

Vinyl material comes in 2 different types. Cast vinyl's and Calendared vinyl's. The terms cast & calendared refer to the way the two types of vinyl are manufactured.

Cast vinyl's (2 mil) are higher quality vinyl due to the method of manufacturing. The manufacturer guarantees cast vinyl against fading, shrinking, cracking and peeling for up to nine years. These vinyl are used where outdoor durability is important.

There is also a cast translucent vinyl. Translucent vinyl are used on signs that are backlit by fluorescent / LED lights so that the colours remain vibrant at night.

Calendared vinyl's (3 mil) are guaranteed by the manufacture for three to five years in outdoor applications. These vinyl's may be used outdoors where long-term vinyl graphics are not required. The vinyl durability is unaffected indoors.

For price comparison, cast vinyl's are approximately three times the price per square foot higher than calendared vinyl.

Large Format Full Colour Digital Printing:

There is a wide range of vinyl that is used to print full colour graphics which are specially manufactured to be used with UV, solvent and eco-solvent based printers. While the vinyl offers excellent bold, color reproduction and quality, the solvent ink formulation resists sunlight fading. Ultra-violet lamination is also available for added durability and maintaining colour fastness.

This vinyl is great for indoor and medium-term outdoor durable applications (three to five years). Typically, graphics are printed onto the vinyl then applied to any of the materials described in the "Sign Substrates" section below. They can also be printed onto something as simple as photographic grade poster paper. We can also print "direct" to most substrates with our UV Flat bed printing process. (Up to 63"w, 1.75" thickness)

Specialty Vinyl's: Are available for digitally printing and typical usages are in:

- **Vehicle Wraps:** to be able to conform with the body lines and can stretch,
- **Floor Graphics:** to create a slip resistant and safe environment ,
- **Wall Graphics:** to create custom "Murals" and visual therapies
- **Window Graphics:** different opacities available including a 2 way film and different types of perforated and clear films.

Printing Rolls come in different widths, typically 54". Digitally printed vinyl can be over laminated to protect from abrasion and to increase colour fastness if required.

Some **Typical Uses** include:

- Promotional signs
- Sandwich Boards
- Wall Graphics
- Displays
- Floor Graphics
- Posters & Billboards
- Decals & stickers
- Fascia Signs
- Window Graphics
- Asphalt art

Sign Substrates:

Popular substrates or backing materials we use include:

- Aluminum
- Banners
- Coroplast
- Crezon
- Polycarbonate
- Acrylic
- Magnetic
- PVC
- Styrene

Aluminum

Aluminum is extremely durable and will last for many years in outdoor conditions. Signs can be made with or without rounded corners or holes. It is also available in different thicknesses ranging from 18 ga. (.040" th.) to 12 ga. (.080" th.).

With this substrate, we primarily use premium vinyl or UV printing for text and graphics. Aluminum can also be screen-printed for volume quantities.

Aluminum Composite Product Line includes: **Alumilite, Econolite, and Alupanels** which are available in bigger sizes. It is a thin Aluminum surface pad backed up onto a plastic rigid core, hence has an excellent outdoor durability as it is fully weather resistant. It is available Good 1 Side and Good 2 Sides in thicknesses ranging from 3mm to 5 mm. Sheet sizes ranges: 4' x 8' and 5' x 10'. Also available in different colours.

Some **Typical Uses** include:

- Regulation Signs
- Street Signs
- Outdoor Directional Signs
- Site Signs
- Construction Signs
- Parking Signs
- Traffic and Regulatory Signage
- Home Builders / Developers Signage
- Dimensional Letters.

Banners

Most of the banners are custom-cut with hems, grommets and/or ropes. Vinyls banners come in 13, 15 or 20 oz. vinyl-coated banner with polyester weave for strength and are best used for outdoors, but can also be used indoors. Both three to five year and nine year adhesive vinyl can be applied to the banners. Banners can also be screen-printed and most of the times due to our full colour capabilities, they are directly digitally printed.

*We can print up to 10' seamless or **ANY** size with seams.

We also carry **Mesh Banners** for "see thru" and "wind thru" applications. These include usages as window treatments, on construction fence lines, and "in" ice rinks for sponsor's logos.

Some **Typical Usages** Include:

- Tradeshow Displays
- Temporary /Mid-Term Outdoor Sign attached to building
- Street Banners, Grand Openings, Store Specials, Sales & Promotions, Special events, ice rinks, window treatments, construction fence advertising, hoarding boards

Coroplast

Coroplast is a corrugated plastic material similar in appearance to corrugated cardboard. This is the least expensive substrate material and is ideal for indoor and temporary outdoor signs.

Coroplast can be screen-printed for volume or direct printed. Due to its light weight, it is ideal for hanging from the ceiling or in a window with suction cups. Coroplast is available in three different thicknesses: 3/16", 1/4" and 3/8". There is a wide range of colours for the 3/16" thickness, but not as many colours available for the other sizes. The sheet sizes range from 4' x 8' to 5' x 10' (depending on thickness and colour).

Some **Typical Uses** include:

- Real Estate Signs
- Election Signs
- Tradeshow Displays
- A-Frame Inserts, point of purchase, temporary and promotional signage

Crezon

Crezon is multi-laminated marine plywood designed for outdoor applications. Crezon may also be painted with enamel paint (such as 1 Shot). An edge trim may be applied to the edges around the perimeter for additional weather protection. It is available Good 1 Side and Good 2 Sides in thicknesses of 1/2" and 3/4" thick. Sheet sizes are 4' x 8' and 4' x 10'.

Some **Typical Uses** include:

- Larger Real Estate Signs
- Site Signs
- Company Identification Signs

Polycarbonate

Typically, this material is known by the trade name of Lexan. Polycarbonate is an extremely strong, shatter-resistant material. It is usually used where the opportunity of breakage is possible. Nine year premium vinyl may be applied (including translucent vinyl for backlit signs).

Polycarbonate comes in white or clear. Thicknesses range from 1/8" to 1/4" or thicker. It comes in sheet form in sizes 49" x 97", 61" x 97" and 75" x 100". Polycarbonate also comes in roll stock form in sizes 38", 52", 64", 72" and 100" high.

*Thinner gauges can be used for Trade Show displays panels and headers for durability.

Some **Typical Uses** include:

- Backlit Ground Signs
- Backlit Fascia Signs
- Pylon Signs

Acrylic

Typically, this material is known by the trade name of Plexiglas. Acrylic comes in both sheet form and in roll stock. Due to the high thermal expansion and contraction rate of acrylic, it is best mounted using an extruded aluminum frame (usually custom made to size). Three to five year and nine year premium vinyl may be applied (including translucent vinyls for backlit signs).

Popular thicknesses in sheet stock range from 1/16" to 1/4". There is a wide range of colours available in sheet sizes of 49" x 97", 61" x 96" and 75" x 100".

Roll stock is 3/16" thick in either white or clear. The heights of acrylic roll stock are 30", 39", 51", 63", and 75".

Some **Typical Uses** include:

- Backlit Ground Signs
- Backlit Fascia Signs
- Pylon Signs
- Menu Boxes
- Brochure Holders
- Restaurant Signage and Thicker Stock used for Dimensional Letters.

Magnetic

Ultra Magnetic material is a thin film of vinyl on top of a magnetic sheet for mounting to metal surfaces. Ultra magnetic material can be directly printed, it may also be screen-printed, vinyl lettered, or coated with a digitally printed vinyl. This material comes on rolls 24" wide in thicknesses of .030".

Some **Typical Uses** include:

- Fridge Magnets
 - Vehicle Signs
 - Information and Communication Boards
- *Thinner gauges also available for Calendars and Business card printing.

PVC

PVC is a smooth, hard plastic material. Thicknesses range from .040" to 1". It is available in various standard colours such as red, blue, yellow, green, white, and black but not in all thicknesses. The most popular thickness is 1/8" (3 mm). Sheet sizes are 4' x 8", 4' x 10' and 5' x 10'. Best yields with direct printing. Three to five year and nine year premium vinyl can also be applied. PVC can also be screen-printed.

Some **Typical Uses** include:

- Tradeshow Displays
- Light Duty Industrial Signs
- POP signage

Styrene

Styrene or HIPS (High Impact Styrene) is smooth, white, lightweight plastic material. It is available in .012", .020", .030", .040", 1/16", .080 and 1/8" thicknesses. Sheet sizes are 40" x 72" and 48" x 96".

Some **Typical Uses** include:

- Tradeshow Displays
 - Internal Bus Sign Advertising
 - External Bus Sign Advertising
- *Note:** A clear version (PET G) available for backlit applications and for graphical light covers.

eMage Graphics Plus strives to provide you with best available options, so please do not hesitate to ask us if you do not see the substrates or the vinyl you are looking for as we also carry variety of materials for wall Murals and window graphics . Thanks you for considering us as your partner for signage.