Gerber LexEdge™ Clear

DESCRIPTION

LexEdge Clear is a custom-formulated, 10-mil clear LEXAN®-based polycarbonate (GE LEXAN 8010) designed for use with the GERBER EDGE®, GERBER EDGE 2®, and GERBER EDGE FX™ thermal transfer printing systems, in conjunction with GerberColor™ Foils.

LexEdge Clear is dimensionally stable and resists tearing, abrasion, and heat. LexEdge Clear also has a protective, removable mask on the print side of the material.

INTENDED APPLICATIONS

LexEdge Clear is ideally suited for the production of architectural signage, point-of purchase displays, exhibit graphics, and membrane switch applications.

Continuous exposure to ultra-violet light may cause discoloration; therefore, LexEdge Clear is not recommended for outdoor or backlit applications.

PRINTING

A tension roll holder should be used with LexEdge Clear.

LexEdge Clear is rolled print side out. Because both sides of the material are polished, the protective mask indicates the print side of the material. Before printing, remove the protective mask from the surface of the intended print area of the film. The mask is easy-to-remove and should only be taken off immediately before printing. The mask should remain on any unused material to ensure maximum protection during storage.

Fine particles may be attracted to the surface of this material. If this occurs, LexEdge Clear can be cleaned with distilled water and a lint-free cloth. Allow the material to completely dry before printing. Do not use an alcohol or solvent based cleaner on this product as they will cause the surface to haze and become unprintable.

GERBER
TECHNOLOGY

Since LexEdge Clear will often be used in second-surface applications, reverse-print procedures will need to be followed. LexEdge Clear is shipped with the print surface rolled out. When printing on LexEdge Clear, a specific color of foil will often be used as a solid backing color. This color will generally be assigned as an overprint. In order to ensure that this color covers the other printed graphics as completely as possible, it may be necessary to alter its print settings. (This will be especially needed when the backing foil will be printed on top of more than two other colors.)

The print settings for the backing foil can be changed in the QuickPlot screen. Go into the "Print Order" screen (F11) and select SETTINGS. Click on "DARK" in the overprint side only.

GerberColor Spot (GCS), GerberColor Process Pro™ CMYK (GCP), and GerberColor Transparent (GCT) Series Foils can be used to print onto LexEdge Clear. LexEdge Clear palettes and print settings are available in GRAPHIX ADVANTAGE® 6.21 Service Pack 1 and higher for the Gerber EDGE. If your GA™ software does not have palettes for LexEdge Clear use HP 220 dark print settings for the Gerber EDGE.

CUTTING

LexEdge Clear should be score cut on any 15-inch EDGE-compatible sprocketed plotter. A 45° SuperSharp blade is recommended. Plotters should be set at 50% speed.

The ideal cut will penetrate halfway through the material. To punch out your finished pieces, find a straight cutline and fold the material backwards. Pinch the cut line with your fingers and the material will break. Slowly remove the finished piece one edge at a time. The user should perform a test cut to determine tool force setting.

If using a plotter with a swivel blade, you will be able to cut simple shapes easily. However, when cutting complex shapes, your ability to maintain an accurate and consistent cut depth may be compromised.

SHELF LIFE AND STORAGE

Store LexEdge Clear in the plastic bag provided in the original shipping box. Printed or unprinted LexEdge Clear should not be stored on a roll that has less than a 3-inch inside diameter.

Use a paper interleaf between printed materials that are rolled or stacked. Do not store printed graphics face to face.

LexEdge Clear should be stored in a clean area free from excessive moisture and sunlight. An ambient temperature below 100° F (38°C) is recommended.

Unprinted LexEdge Clear can be stored for one year at 70°F (21°C) and 50% relative humidity.

CAUTION: Polycarbonate film is commonly used in conjunction with sensitive electronic devices either as a label, window or membrane switch overlay. These devices or components of the same are often packaged in anti-static materials to protect the electronics against damage caused by electrostatic discharge (ESD). One type of anti-static packaging material is commonly referred to as **Pink Poly**. It is a clear pink (hot pink) polyethylene that is available as a film for bags, bubble pack or foam. It is treated with an amine type compound that imparts the anti-static qualities. This compound works by blooming to the surface of the polyethylene and together with airborne moisture produces ions that increases the electrical conductivity at the surface of the polyethylene. ***All amines are chemically aggressive to polycarbonate.*** A polycarbonate part that comes in contact with amines will eventually degrade. The degradation

GERBER
TECHNOLOGY

shows up as a surface haze or clouding, stress cracking of formed parts, complete ink delamination or -in the advanced stages- de-polymerization of the polycarbonate. *Pink Poly should not be used in close proximity to any polycarbonate product including hard-coated polycarbonate film.* Anti-static packaging materials that are safe to use are those that are made conductive by using a metallized coating or inert conductive filler.

MAINTENANCE

To clean printed graphics, use a mild, non-abrasive soap with a soft cloth or sponge. Avoid using alcohol-based cleansers or soaps containing grit or abrasives.

PHYSICAL PROPERTIES

Thickness	10 mils
Film Color	Polished / Polished

CHEMICAL RESISTANCE (UNPRINTED)

Chemical Agent	Result
Mild Acids	No effect
Alcohols	Hazing
Alkalis	No effect at low concentration and below 85º F (29º C).Higher concentrations and temperatures result in physical decomposition.
Aliphatic Hydrocarbons	No effect
Amines	Crystallization
Aromatic Hydrocarbons	Severe Stress cracking
Detergents and sprays	Mild soap solutions have no effect. Strongly alkaline materials should be avoided.
Esters	Crystallization
Fruit juices/soft drinks	End user test recommended
Ketones	Crystallization / stress cracking
Silicone oils/greases	No effect up to 85º F (29º C).

RELATED LITERATURE

Refer to Product Bulletins of relevant foils and materials for product-specific handling, production, and finishing information.

GERBER TECHNOLOGY

CONTACT INFORMATION

For help with questions concerning Gerber products, please call your distributor or Gerber Customer Service at 1-800-222-7446 or (860) 644-1551. Visit us on the Internet at www.gerbertechnology.com/signage to learn more about our many other foils, materials and equipment.

Category: EDGE READY™	**FastFact #**:5504	**Supplied by**: Aftermarkets	**Last Modified**: 02/27/18

GERBER TECHNOLOGY