



GerberVision™ Perforated Window Film

DESCRIPTION	1
INTENDED APPLICATIONS	1
PERFORMANCE LIFE (UNPRINTED)	1
SHELF LIFE AND STORAGE	2
MAINTENANCE	2
PRINTING	2
PROTECTING GRAPHICS	2
CUTTING	2
SUBSTRATE PREPARATION	3
APPLICATION TECHNIQUES	3
PHYSICAL PROPERTIES	3
RELATED LITERATURE	4

DESCRIPTION

GerberVision is an adhesive backed, perforated vinyl film custom formulated by 3M™ for use with Gerber Digital Color Printing Systems and GerberColor™ foils. GerberVision has a white front for image reception, a black backing and a clear adhesive. Because the film has a 50% perforation pattern, the black backing side can be seen through.

The adhesive allows removal of GerberVision graphics up to one year after application without leaving an adhesive residue on most substrates.

INTENDED APPLICATIONS

GerberVision window film can be used on flat, transparent substrates such as vehicle and store windows. The film can be applied to a variety of substrates including acrylic, glass and polycarbonates. The user should determine the suitability of all substrates prior to actual application.

Optimal visual results will be achieved if the light source on the printed side is stronger than that of the adhesive side. The film is not intended for backlit applications or applications where contact with petrochemical spillage may occur.

GerberVision is not recommended for application to substrates that require a clear view when wet (i.e. automobile front windshields). Water can fill the perforations and obstruct vision through the window. Some states have regulations requiring minimum light passage that may limit the use of this product on vehicle windows. The user is solely responsible for complying with all applicable standards.

PERFORMANCE LIFE (UNPRINTED)

GerberVision has one-year durability when applied vertically.

Performance statements are based upon field experience and exposure tests conducted throughout the United States. Substrate selection, exposure angle, environmental conditions, and maintenance of markings will affect actual performance. Continuous exposure in regions that experience maximum sunny days will result in decreased performance. This product is not recommended for horizontal applications.

SHELF LIFE AND STORAGE

Apply film within one year of receipt. Printed graphics should also be applied within one year. Film and printed graphics (with or without premask) should be kept in a clean area free from excessive moisture and direct sunlight. Maintain temperature at less than 100°F (38°C).

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

To prevent wrinkling, graphics should be shipped and stored flat or wound on a 6"-diameter core, graphic side out.

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. Automated vehicle washing systems that use rotary cleaning brushes should also be avoided.

PRINTING

Select GerberVision settings to optimize the print performance with the EDGE®, EDGE2, or EDGE FX™.

GerberColor Spot (GCS) Series, GerberColor Process (GCP) SUPER CMYK™ Series, GerberColor Medal (GCM) Series and GerberColor Transparent (GCT) Series Foils can be used to print onto GerberVision.

The film surface perforations are .050" to .055" (1.27mm to 1.40mm) and fine detail may be lost during printing. Images printed on GerberVision may appear lighter than when printed on a film that is not perforated.

PROTECTING GRAPHICS

Gerber Scientific Products, Inc. offers four products that are designed to protect vinyl and printed graphics.

Gerber Guard™ is a durable, dimensionally stable, glossy vinyl overlamine. This film has a petrochemical-resistant construction and is intended to be used when markings may be exposed to petrochemical spillage and/or severe handling conditions.

Gerber UV Guard™ is a 1-mil TEDLAR® based overlamine that is designed to protect Series 220 printed and cut graphics from UV exposure.

Abrasion Guard™ is a clear, top-coat GerberColor Foil designed to protect graphics from moderate contact or handling.

Matte Clear is a clear matte finish, top coat GerberColor Foil designed to reduce glare and protect graphics from moderate contact or handling.

CUTTING

GerberVision can be cut on any Gerber 15" sprocketed plotter. A 30° SuperSharp blade is recommended. If you are using a high-speed plotter (HS 15™, HS15Plus™) maximum recommended speed is 70%. Any other plotter can be set to full speed.

SUBSTRATE PREPARATION

Before applying your graphic, wash the surface of your substrate with warm water and detergent. Do not use soaps or other cleaners with lotions or creams as they will leave a residue. Thoroughly rinse the surface and allow it to completely dry.

Saturate a clean paper towel with a solvent-based cleaner and wipe the substrate surface. Be certain to follow all manufacturer safety guidelines when using any solvent. Dry the surface with a lint-free paper towel before the solvent evaporates.

If applying to glass, solvent wipe the surface with a 2 to 1 mixture of water and isopropyl alcohol. Glass temperatures can vary across the surface. These temperature variations can produce stresses which may cause the glass to break. Use caution when applying to glass.

Some polycarbonate substrates may weaken when certain vinyl films are applied to them. Because of this possibility, the user will need to determine if safety items such as helmets, safety shields, and some windshields are compatible with their vinyl's adhesive.

Many paint systems (e.g. two-part urethane) and some polycarbonate substrates will outgas if they are not fully cured. Outgassing can cause permanent bubbling in most films; substrates should be tested for outgassing prior to final application.

APPLICATION TECHNIQUES

Dry application methods should be used with GerberVision and panels should be butted.

Trim the graphic so that 1/8" to 1/4" (.005mm to .01mm) of the window surface is visible. GerberVision should not touch the window molding.

Gerber standard tack application tape is required for all graphics produced with Gerber Digital Color Printing Systems.

Remove GerberVision by heating one corner with a heat gun or heat lamp. (Be certain to follow manufacturer safety procedures when using a heat source.) Slide a razor or knife edge under the corner to loosen the graphic. Care should be taken not to scratch the window surface. Pull the film at a 180° angle over itself and heat the removal point.

Surface temperature should be 70°F to 100°F (21°C to 38°C) if removing GerberVision from Lucite SAR or Lexan®. If glass window panels are above 60°F (10°C), additional heat will not be required for removal.

PHYSICAL PROPERTIES

Thickness	2.5 - 3.5 mil with adhesive
Film Color	White punched
Adhesive	Pressure sensitive
Adhesive Color	Clear with black film underneath
Liner	4.2 lbs/inch (.7 kg/cm min)
Tensile Strength	4.2 lbs/inch (.7 kg/cm min)
Elongation	50% minute
Dimensional Stability	.0625" (1.59mm)
Application Temp (air and surface)	40°F to 100°F (4°C to 38°C)
Removal Temp	See Application Techniques

Operating Temp	-30°F to +200°F (-34°C to +93°C)
*Flammability Rating	A

*Many states/communities require interior applications to meet an ASTM-84 STM for surface burning characteristics of building materials specifications.

RELATED LITERATURE

GerberColor Spot (GCS) Series, GerberColor Process (GCP) SUPER CMYK Series, GerberColor Medal (GCM) Series, GerberColor Transparent (GCT) Series, and Abrasion Guard (GerberColor Finishing GCF) Product Bulletins.

For help with questions concerning Gerber products, please call your distributor or Gerber Customer Service at 1-800-222-7446 or (860)644-1551.

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Lexan is a registered trademark of GE Plastics, Inc.

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