Gerber Security Label Stock

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DESCRIPTION

Gerber Security films are 2-mil, dimensionally stable, polyester-based films that resist tearing and abrasion. They have been formulated for use with the GERBER EDGE®, GERBER EDGE 2®, and GERBER EDGE FX™ thermal transfer printing systems, in conjunction with GerberColor™ Foils. They are coated with a tamper-evident adhesive system and are backed with a 90-lb lay-flat liner.

Gerber Security Label Stock is available in chrome-silver and white.

INTENDED APPLICATIONS

Gerber Security films are ideally suited for a wide variety of commercial and industrial label applications in which tamper resistance, heat resistance and dimensional stability are required.

When labels printed on Gerber Security Label Stock are adhered to substrates such as stainless steel, acrylic, or polypropylene, a “VOID” pattern will be left behind when the material is removed. The removed label can not be reapplied. The user should determine the suitability of all substrates prior to actual application.

Activation of the tamper-evident feature will occur approximately two hours after application at 60°F to 75°F (16°C to 24°C). This feature will become permanently non-functional when continuously exposed to temperatures above 104°F (40°C).

Due to the mirror-like finish of the chrome silver, it is not suitable for the scanning of bar code information. We suggest using the white label stock for barcodes.

Only solid fills should be printed on this material. The minimum recommended stroke width is .009 in (.23 mm).

These films are not intended for backlit applications or applications where petrochemical exposure may occur. If petrochemical exposure is anticipated, refer to the section below on protecting graphics.

APPLICATION TECHNIQUES

Dry application methods should be used with Gerber Security Label Stock and panels should be butted. Gerber standard tack application tape is required for all EDGE-printed graphics.

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.

PERFORMANCE LIFE (UNPRINTED)

Gerber Security Labels have an expected exterior durability of up to two years 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. Extreme temperature cycling over a short time may result in film cracking. This product is not recommended for horizontal applications.

PRINTING

If your software material selection palette does not have Gerber Security Label Stock, use LexEdge™ II normal print settings.

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

Recommended working environment is as follows:

- Operating temperature: 50ºF to 95ºF / 10ºC to 35ºC
- Recommended temperature for assured printing accuracy: 68ºF to 78ºF / 20ºC to 26ºC

- Operating humidity: 20% to 90% relative humidity, non-condensing (maximum range; actual range varies by material used)

CUTTING

Gerber Security Films can be cut on any 15-inch EDGE-compatible sprocketed plotter. A 30° SuperSharp blade is recommended. Plotters can be set to full speed.

The user should perform a test cut to determine the ideal tool force setting.

PROTECTING GRAPHICS

Gerber Technology offers products that are designed to protect vinyl and printed graphics.

Gerber Guard™ manufactured by 3M is a durable, dimensionally stable, glossy vinyl overlaminate. 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 UVGuard™ is a custom-formulated, 1-mil, clear, TEDLAR® polyvinyl fluoride (PVF) laminating film designed to further expand the resistance to weathering of printed graphics for up to five years.

Gerber UVGuard™ 9 manufactured by 3M is a 2-mil, glossy, clear, mildew-resistant, polyvinyl fluoride laminating film with a petrochemical-resistant adhesive system. It is designed to further expand the resistance to weathering of printed graphics up to nine years. Gerber UVGuard 9 has the highest protection from UV fade.

Gerber StrikeGuard™ is an 8.0-mil, clear, glossy overlaminate film designed for a variety of applications. This heavy-duty overlaminate film is ideal for the protection of graphics, up to two years, and is especially beneficial where printed graphics experience severe handling and forceful impact. Gerber StrikeGuard is not recommended in applications that require petrochemical protection or where additional UV or vandal resistance is desired.

Abrasion Guard™ SPF (Sign Protection Formula) is a clear, top-coat GerberColor Finishing Series (GCF) Foil designed for use with EDGE® Series thermal transfer printing systems, to protect graphics from moderate contact and exposure to harmful effects of UV rays. It has an expected performance life of up to five years (when printed by itself). When applied as a protective overprint on other GerberColor Foils, Abrasion Guard SPF will extend the life of the base color by up to 30%.

Matte Clear is a clear matte finish, top coat GerberColor Foil designed for use with EDGE® Series thermal transfer printing systems, to reduce glare and protect graphics from moderate contact or handling. It has an expected performance life of up to three years.

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 70°F (21°C) and humidity at 50%.

Use a paper interleaf between layers of stacked or rolled printed materials. Do not stack printed graphics face to face.

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	2.4 to 2.5 mils with adhesive
Film Color	Chrome silver
Adhesive	Pressure sensitive
Adhesive Color	Clear
Liner	90-lb layflat
Tensile Strength	N/A
Elongation	0
Dimensional Stability	No measurable shrinkage
Application Temp	32°F to 100°F (0°C to 38°C)
Removal Temp	N/A
Operating Temp	-40°F to 104°F (-40°C to 40°C)

CHEMICAL RESISTANCE (UNPRINTED)

Chemical Agent	Result
Household Cleaners	No effect
Mild acids	No effect
Motor oil	No effect
Water	No effect

RELATED LITERATURE

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

CONTACT INFORMATION

Graphic Marking Systems • 800-232-8018 • www.ShopGMS.com

EDGE, GERBER EDGE, GERBER EDGE 2, Gerber Scientific Products, GerberCal, GerberGraphics, GRAPHIX ADVANTAGE, GSP, and Images on Vinyl are Registered Trademarks of Gerber Technology.

Abrasion Guard, ColorSet, EDGE Positive, EDGE READY, Gerber AutoMag, GERBER EDGE FX, Gerber FastFacts, Gerber Guard, Gerber HoloGraphix, Gerber ImageCal, Gerber ImageCast, Gerber InstaChange, Gerber OMEGA, Gerber PermaGrip, Gerber PlastiGraphix, Gerber QUANTUM, GerberStardust, Gerber StrikeGuard, Gerber Tone, Gerber UVGuard, GerberCal, GerberColor, GerberColor Spectratone, GerberGauge, GerberGlow, GerberMag, GerberMask, GerberVision, GS 15, GS15plus, GSP Plot, GSxplus, GSx, ImagePerfect, IMAGE READY, LexEdge, Matched Technology System, MTS, ODYSSEY, OMEGA, Process Pro, SpectraShade, and SpectraTint are Trademarks of Gerber Technology.

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