



U.L.® Recognized Gerber PermaGrip™ Label Stock

| | |
|-------------------------------------------------------------|---|
| DESCRIPTION..... | 1 |
| INTENDED APPLICATIONS..... | 1 |
| APPLICATION TECHNIQUES..... | 1 |
| SUBSTRATE PREPARATION..... | 2 |
| PERFORMANCE LIFE (UNPRINTED)..... | 2 |
| PRINTING..... | 2 |
| CUTTING..... | 2 |
| PROTECTING GRAPHICS..... | 3 |
| SHELF LIFE AND STORAGE..... | 3 |
| MAINTENANCE..... | 3 |
| U.L. RECOGNITION..... | 3 |
| GERBER PERMAGRIP LABEL STOCK UL RECOGNITION DATA TABLE..... | 4 |
| PHYSICAL PROPERTIES..... | 4 |
| CHEMICAL RESISTANCE (UNPRINTED)..... | 5 |
| ADHESION PROPERTIES (TEST METHOD ASTM D 3330)..... | 5 |
| RELATED LITERATURE..... | 5 |
| CONTACT INFORMATION..... | 5 |

DESCRIPTION

Gerber PermaGrip™ Label Stock is a dimensionally stable, polyester-based film that resists tearing, abrasion and heat. It has been formulated for use with the GERBER EDGE®, GERBER EDGE 2®, and GERBER EDGE FX™ thermal transfer printing systems, in conjunction with GerberColor™ Foils. It has an extremely aggressive adhesive for use on low surface energy substrates. It is edge-stripped to eliminate build up of adhesive residue on sprocketed equipment. U.L. recognized Gerber PermaGrip Label Stock is available in 2-mil White and is formulated for both interior and exterior applications.

INTENDED APPLICATIONS

Gerber PermaGrip Label Stock is ideally suited for a wide variety of commercial and industrial label applications in which durability, heat resistance and dimensional stability are required.

This film is not intended for backlit or vehicle applications. It should be applied to flat surfaces that are clean and dry.

APPLICATION TECHNIQUES

Dry application methods should be used with Gerber PermaGrip 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.

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 PermaGrip Label Stock has 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

Use 2-mil White Label Stock settings in your software selection palette. If not available, use Gerber HP Series 220 or 3M™ Scotchcal™ 220 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 Gerber PermaGrip Label Stock. If your application requires a U.L. recognized component construction, be certain to use only the GerberColor Series that have the following U.L. recognition sticker:



Recommended working environment is as follows:

- Operating temperature: 50°F to 95°F / 10°C to 35°C
- Recommended temperature for assured printing accuracy: 68°F to 78°F / 20°C to 26°C
- Operating humidity: 20% to 90% relative humidity, non-condensing (maximum range; actual range varies by material used)

CUTTING

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

PROTECTING GRAPHICS

Gerber Scientific Products®, Inc. offers products that are designed to protect 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 UVGuard™ G5 is a 1-mil, high gloss, clear, mildew and graffiti-resistant, polyester laminating film with a petrochemical-resistant adhesive system. It is designed to further expand the resistance to weathering of printed graphics up to five years.

Gerber UVGuard™ 9 is a 1-mil, glossy, clear, mildew and graffiti-resistant, polyvinylfluoride 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 overlamine film designed for a variety of applications. This heavy-duty overlamine 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 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 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.

U.L. RECOGNITION

Gerber PermaGrip Label Stock has been recognized for use by Underwriters Laboratories, Inc.® on several different types of substrates through differing temperature extremes. The U.L. file number is MH25192. It is UL969 certified, UL file number PGJ12.MH25192.

GERBER PERMAGRIP LABEL STOCK UL RECOGNITION DATA TABLE

USS – Standard UL 969, “Marking and Labeling Systems”

| Application Surface | Temp (°C) | | Indoor | Outdoor | Additional Conditions |
|-----------------------------------|-----------|-----|--------|---------|-----------------------|
| | Max | Min | Use | Use | |
| Acrylic paint | 150 | -40 | ✓ | ✓ | - |
| Alkyd paint | 150 | -40 | ✓ | ✓ | - |
| Aluminum | 150 | -40 | ✓ | ✓ | - |
| Epoxy paint | 150 | -40 | ✓ | ✓ | - |
| Epoxy/Polyurethane powder paint | 150 | -40 | ✓ | ✓ | - |
| Galvanized steel | 150 | -40 | ✓ | ✓ | - |
| Glass | 150 | -40 | ✓ | ✓ | - |
| Polyester paint | 150 | -40 | ✓ | ✓ | - |
| Polyester powder paint | 150 | -40 | ✓ | ✓ | - |
| Polyurethane powder paint | 150 | -40 | ✓ | ✓ | - |
| Porcelain | 150 | -40 | ✓ | ✓ | - |
| Stainless Steel | 150 | -40 | ✓ | ✓ | - |
| Epoxy powder paint | 125 | -40 | ✓ | ✓ | - |
| Melamine | 100 | -40 | ✓ | ✓ | - |
| Nylon – polyamide | 100 | -40 | ✓ | ✓ | - |
| Phenolic – Phenol Formaldehyde | 100 | -40 | ✓ | ✓ | - |
| Unsaturated polyester – thermoset | 100 | -40 | ✓ | ✓ | - |
| Acrylonitrile butadiene styrene | 80 | -40 | ✓ | ✓ | - |
| Polybutylene terephthalate | 80 | -40 | ✓ | ✓ | - |
| Polycarbonate | 80 | -40 | ✓ | ✓ | - |
| Polyethylene | 80 | -40 | ✓ | ✓ | - |
| Polyphenylene oxide/ether | 80 | -40 | ✓ | ✓ | - |
| Polypropylene | 80 | - | ✓ | - | - |
| Polystyrene | 80 | -40 | ✓ | ✓ | - |
| Polyvinyl chloride | 80 | -40 | ✓ | ✓ | - |

PHYSICAL PROPERTIES

| | |
|-----------------------|---------------------------------|
| Thickness | 2 mil (See Description) |
| Film Color | White |
| 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) |
| Service Temp | -40°F to 302°F (-40°C to 150°C) |
| Removal Temp | N/A |

CHEMICAL RESISTANCE (UNPRINTED)

| Chemical Agent | Result |
|--------------------|-----------|
| Household cleaners | No effect |
| Mild acids | No effect |
| Motor Oil | No effect |
| Water | No effect |

ADHESION PROPERTIES (Test Method ASTM D 3330)

| Peel From Substrate: | Average 15 Minutes | | Average 3 Days Room Temperature | | Average 3 Days 160 °F | |
|------------------------------|--------------------|-------|------------------------------------|-------|--------------------------|--------|
| | Oz/in | (N/m) | Oz/in | (N/m) | Oz/in | (N/m) |
| ABS | 36 | (396) | 60 | (660) | 59 | (649) |
| Acrylic | 56 | (616) | 70 | (770) | 61 | (671) |
| Aluminum | 48 | (528) | 62 | (682) | 92 | (1012) |
| HDPE | 27 | (297) | 32 | (352) | 37 | (406) |
| Lexan (Bare) | 50 | (550) | 57 | (627) | 64 | (704) |
| Metal-Painted (alkyd enamel) | 49 | (539) | 58 | (639) | 89 | (979) |
| Powder Paint Acrylic | 43 | (473) | 61 | (671) | 81 | (891) |
| Powder Paint Epoxy | 50 | (550) | 62 | (682) | 82 | (902) |
| Powder Paint Polyester | 32 | (352) | 33 | (363) | 65 | (715) |
| Powder Paint Polyurethane | 45 | (495) | 6 | (66) | 87 | (957) |
| Stainless Steel | 42 | (462) | 61 | (671) | 107 | (1177) |

RELATED LITERATURE

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

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.gspinc.com to learn more about our many other foils, materials and equipment.

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Category: EDGE READY™

Supplied by: Aftermarkets

Last Modified: 3-20-13