



Gerber ColorSet™ Thermal Transfer Foils

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DESCRIPTION

ColorSet Foils are resin-based pigmented foils formulated for use with the GERBER EDGE® and GERBER EDGE 2® thermal transfer printing systems, in conjunction with EDGE READY™ materials in the production of intermediate-durability graphics. ColorSet Foils are available in four process colors and five spot colors.

ColorSet Foils are not available with the GERBER EDGE FX™.

| ColorSet Process (CSP) | | ColorSet Spot (CSS) | |
|------------------------|----------------|---------------------|----------------|
| Process Colors | Pigment Number | Spot Colors | Pigment Number |
| Process Black | CSP-12 | Cobalt Blue | CSS-37 |
| Process Magenta | CSP-273 | Green | CSS-186 |
| Process Yellow | CSP-605 | Warm Red | CSS-253 |
| Process Cyan | CSP-607 | Yellow | CSS-15 |
| | | Black | CSS-12 |

INTENDED APPLICATIONS

Recommended ColorSet Foils applications include banners, stationary signs*, promotional graphics, and other interior and exterior markings. The user should determine the suitability of all applications before using ColorSet Foils.

For long-term graphics or for markings requiring a GerberColor™ Spectratone™ color or a PANTONE® Simulation, please refer to the GerberColor Foils Product Bulletins (ref. # GCS, GCT, GCM, GCF, GCP).

* ColorSet durability ratings apply to stationary graphics only. Vehicle, mass transit, and other applications where abrasion and frequent contact is common are not recommended.

PERFORMANCE LIFE

When printed on approved EDGE READY Materials (see PRINTING section) and applied vertically, ColorSet Foils will have an expected exterior performance life of up to two years for Process Colors and up to three years for Spot Colors for vertical, non-mobile applications.

Performance statements are based upon field experience and exposure tests conducted throughout the United States using solid fill prints. 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

ColorSet Foils, film, and printed graphics (with or without pre-mask) should be kept in a clean area free from excessive moisture and direct sunlight. Store foils at 40°F to 90°F (4°C to 32°C) and 40% to 60% humidity. When not in use, cartridges should be kept in their package sleeves.

PRINTING

ColorSet Process and Spot Foils are compatible with other GerberColor Foils. ColorSet Foils have been tested and approved for use with the following EDGE READY and IMAGE READY™ Materials: Gerber HP Series 220 and 225 manufactured by 3M, Gerber HP Series 210 Fluorescent, Gerber QUANTUM™ Series 2000, Gerber Static Cling, Gerber PlastiGraphix™ PVC-10, Gerber InstaChange™ manufactured by 3M, GerberVision™ manufactured by 3M, Gerber HoloGraphix™, Gerber ImageCast™ manufactured by 3M, Gerber ImageCal™ “R” Clear and White, Gerber ImageCal “P”, GerberMag™ II, Gerber AutoMag™ II, and Gerber Security Label Stock.

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)

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 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™ is a custom-formulated, 1-mil, clear, TEDLAR polyvinyl fluoride (PVF) laminating film designed to further expand the resistance to weathering of printed graphics 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 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.

APPLICATION TECHNIQUES

Gerber standard tack application tape is required for all EDGE-printed graphics. Printed graphics should be allowed to cure for 15 minutes prior to the application of transfer tape.

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

| Foil | |
|------------------------------|---|
| Pigment | Resin Based |
| Color Coat | 2.5 to 3.0 microns |
| Liner Thickness | 5.7 microns |
| Foil Length – <i>minimum</i> | Spot (CSS) – 45 meters (49.21 yards) Process (CSP) – 50 meters (54.68 yards) |

| Cartridge | |
|------------------|-------------|
| Cores | Polystyrene |
| End Shell | ABS plastic |
| End Plugs | ABS plastic |
| Side Rails | ABS plastic |
| Cartridge Weight | 1 lb 12 oz |

CHEMICAL RESISTANCE (Printed on Gerber High Performance Series 220)

| Chemical Agent | Exposure Time | Results |
|------------------------|---------------|---------------------|
| Water | 24 hours | No effect |
| SAE 20 Motor Oil | 24 hours | Reduced gloss level |
| 10% Hydrochloric Acid | 10 min | No effect |
| 10% Ammonium Hydroxide | 10 min | No effect |
| Windshield fluid | 10 min | Reduced gloss level |
| Naphtha | 10 min | No effect |
| Antifreeze | 24 hours | No effect |
| Mineral Spirits | 10 min | No effect |
| Reference Fuel | 1 hour | Reduced gloss level |
| Dish Detergent/Water | 24 hours | No effect |

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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