



GerberColor™ Process Pro™ CMYK Series Foils

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DESCRIPTION

GerberColor Process Pro CMYK (GCP) Series Foils are durable, dimensionally stable, resin-based, pigmented foils designed for use with the GERBER EDGE®, GERBER EDGE 2®, and GERBER EDGE FX™ thermal transfer printing systems, in conjunction with EDGE READY™ materials. GerberColor Process Pro CMYK Foils produce printed graphics capable of withstanding severe weather and handling conditions in both commercial and industrial applications.

Colors	
GCP-812 Process Pro Black	GCP-873 Process Pro Magenta
GCP-805 Process Pro Yellow	GCP-807 Process Pro Cyan

INTENDED APPLICATIONS

GerberColor Process Pro CMYK Foils are intended for making four-color reproductions on a variety of EDGE READY materials.

Images printed with GerberColor Process Pro CMYK Foils are not intended to be exposed to petrochemical spillage. If petrochemical contact is anticipated, refer to the PROTECTING GRAPHICS section below.

PERFORMANCE LIFE

When printed on EDGE READY materials and applied vertically, GerberColor Process Pro CMYK Foils will have an expected performance life of up to three years.

Performance statements are based upon exposure tests using solid fills. 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 exposure applications.

SHELF LIFE AND STORAGE

Printed graphics should be applied within one year. GerberColor 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.

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

PRINTING

GerberColor Process Pro CMYK Foils are compatible with EDGE READY materials. GCP Foils are also compatible in overprint combinations (GerberColor Spectratone™) with the following GerberColor Series: GerberColor Transparent (GCT) and GerberColor Spot (GCS). GerberColor Medal (GCM) and GerberColor Finishing (GCF) Series Foils should not be used as the underlayer in an overprint construction. GCP Foils are not compatible with Heat Transfer Paper (HTP). L.T. Foils are required for use with HTP.

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 Scientific Products®, Inc. 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 up to five years.

Gerber UVGuard™ 9 manufactured by 3M is a 1-mil, glossy, clear, mildew and graffiti-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 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. 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. Automated vehicle washing systems that use rotary cleaning brushes should also be avoided.

PHYSICAL PROPERTIES

Foil	
Pigment	Resin Based
Color Coat	3.5 to 4.1 microns
Liner Thickness	5.7 microns
Foil Length - <i>minimum</i>	49.21 yards (45 meters)

Cartridge	
Cores	Polyethylene
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	No Effect
50/50 Ethylene Glycol/Water	24 Hours	No Effect
10% Hydrochloric Acid	10 Minutes	No Effect
10% Ammonium Hydroxide	10 Minutes	No Effect

Chemical Agent	Exposure Time	Results
Mineral Spirits	10 Minutes	No Effect
Reference Fuel (15% Xylol/ 85% Mineral Spirits)	1 Hour	No Effect
Antifreeze	24 Hours	No Effect
Naptha	1 Hour	No Effect
Windshield Wiper Fluid	1 Hour	No Effect
#1 Diesel Fuel	24 Hours	No Effect
89 Octane Gasoline	1 Hour	No Effect
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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Category: GerberColor Foils	FastFact #: 5590	Supplied by: Aftermarkets	Last Modified: 9/16/14
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