



GerberColor™ Process Pro™ CMYK Series Foils

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DESCRIPTION

GerberColor Process Pro (GCP) Series CMYK Foils are durable, dimensionally stable, resin-based foils designed for use with Gerber Digital Color Printing Systems and 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 Black	GCP-873 Process Magenta
GCP-805 Process Yellow	GCP-807 Process 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 section below on protecting graphics.

APPLICATION TECHNIQUES

Gerber standard tack application tape is required for all graphics produced with Gerber Digital Color Printing Systems. Printed graphics should be allowed to cure for 15 minutes prior to the application of transfer tape.

PERFORMANCE LIFE

When printed on EDGE READY materials and applied vertically, GerberColor Process Pro CMYK Foils will have a performance life of 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.

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 recommended for use with Heat Transfer Paper.

Minimum environment temperature for printing is 40° F (4° C).

PROTECTING GRAPHICS

Gerber Scientific Products offers several 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 UVGuard™ G5 is a 1-mil, high-gloss, clear polyester film that is graffiti resistant and provides 5-year protection from the sun.

Gerber UVGuard™ 9 is a glossy 1-mil, clear, polyvinylfluoride laminating film that provides 9-year protection from the sun.

GerberColor Abrasion Guard™ SPF (GCF-214) and Matte Clear (GCF-334) foils are two finishing foils designed to protect graphics from moderate contact or handling. Abrasion Guard is a clear, topcoat foil and Matte Clear is a matte-finish topcoat foil.

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 below 100° (38° C) and within 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.

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
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

GerberColor Spot (GCS) Series, GerberColor Medal (GCM) Series, GerberColor Transparent (GCT) Series, GerberColor Finishing (GCF) Series, Gerber Guard, GerberColor Abrasion Guard™ SPF (GCT), and Gerber UVGuard G5 and 9 Product Bulletins.

Contact Information

For help with questions concerning Gerber products, please call your distributor or Gerber Customer Service at 1-800-222-7446 or (860) 644-1515. Or visit our web site at ww.gspinc.com to learn more about our many other foils, materials and equipment.

GerberColor, EDGE READY, Process Pro, SUPER CMYK, GerberColor Spectratone, Gerber Guard, Gerber UVGuard G5 and 9, and Abrasion Guard SPF are Trademarks of Gerber Scientific Products.

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