



GerberColor™ Special Effects Series (GCX) Jet Black Foil

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DESCRIPTION

GerberColor™ Special Effects Series Jet Black (GCX-12) is a durable, dimensionally stable, resin-based pigmented foil designed for use with the GERBER EDGE®, GERBER EDGE 2®, and GERBER EDGE FX™ thermal transfer printing systems, in conjunction with EDGE READY™ materials. With its extra-heavy pigment construction, the gloss level of Jet Black will appear diminished when compared to standard GerberColor Spot Foils.

Color Name	Pigment Code
Jet Black	GCX - 12

INTENDED APPLICATIONS

This foil is intended for use in the production of interior or exterior graphics, point-of-purchase displays, film positives, or any graphics requiring high density black outs. In addition, this foil can be used for reverse-print and second-surface applications. The user must determine the suitability of Jet Black for application with electrically illuminated backlit signs.

Most materials that this foil would be printed on are not intended for use where they may be exposed to petrochemical spillage. If petrochemical contact is anticipated, refer to the section below on protecting graphics. The user should determine the suitability of all substrates.

PERFORMANCE LIFE

Jet Black has an expected durability of up to four years when applied vertically. Durability statement is based on accelerated aging using solid fill printing. Actual durability may vary. 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. Due to the extra thickness of the Jet Black pigment, contact with abrasive surfaces or high-tack tapes, such as cellophane tapes, may split or lift the top portion of the printed image.

SHELF LIFE AND STORAGE

Shelf life of GerberColor Foils is 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.

PRINTING

Halftone blends and fades are not recommended applications for Jet Black Foil. Lot to lot variations can produce slight visual differences in color output.

Jet black is compatible with all EDGE READY materials.

Jet Black is compatible as the overlayer in overprint combinations with the following GerberColor Series Foils: GerberColor Spot (GCS), GerberColor Process Pro™ CMYK (GCP), and GerberColor Transparent (GCT).

Jet black is not recommended for creating GerberColor Spectratone™ matches.

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 graphics produced with EDGE Series printers. 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

Foils	
Pigment	Resin Based
Coating Thickness	6.3 to 7.3 microns
Liner Thickness	5.7 microns
Foil Length - <i>minimum</i>	45 meters (49.21 yards)

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	Result
Water	24 hours	No effect
SAE 20 Motor Oil	24 hours	No effect
50/50 Ethylene Glycol/Water	24 hours	No effect

Chemical Agent	Exposure Time	Result
10% Hydrochloric acid	10 minutes	No effect
10% Ammonium Hydroxide	10 minutes	No effect
Mineral Spirits	10 minutes	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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