



Gerber Series 210 Deluxe Silver and Deluxe Gold Film

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DESCRIPTION

Gerber High Performance Series 210 Deluxe Silver and Deluxe Gold Films are outdoor-durable, mirror finish graphic films custom formulated for use in cut graphic applications and with Gerber Digital Printing Systems and GerberColor™ Foils. Series 210 Deluxe Films are dimensionally stable and have been designed to withstand severe weather and handling conditions. Series 210 Deluxe Films also have a synthetic, transparent liner.

INTENDED APPLICATIONS

Series 210 Deluxe films are ideally suited for interior and exterior emblems, logos, signs, point of purchase, and vehicular applications. These films have been designed for use in applications which require a true mirror look. They can be applied to flat surfaces. The user should determine the suitability of all substrates prior to actual application.

Series 210 Deluxe Film has a clear adhesive and is therefore suitable for use as a cut graphic in window/transparent substrate applications. It can also be used on opaque substrates.

This film is not recommended for use on corrugated or highly irregular surfaces or for use in fabricating automotive OEM's. It is also not intended for applications where petrochemical contact may occur (It can be used in non-spill areas such as doors on cars and trucks). If petrochemical exposure is anticipated, refer to the section below on protecting graphics.

PERFORMANCE LIFE (UNPRINTED)

When applied vertically, Deluxe Silver has a performance life of five years and Deluxe Gold has a performance life of three years.

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. This product is not recommended for horizontal applications.

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 less than 100°F (38°C).

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. Automated vehicle washing systems that use rotary cleaning brushes should also be avoided.

PRINTING WITH THE GERBER EDGE® and EDGE 2

User should select Gerber 210 Deluxe Film settings to optimize print performance with the EDGE and EDGE 2. GerberColor Finishing (GCF), GerberColor Spot (GCS) Series, GerberColor Process (GCP) SUPER CMYK™ Series, GerberColor Medal (GCM) Series and GerberColor Transparent (GCT) Series Foils can be used to print onto Series 210 Deluxe Films.

PROTECTING GRAPHICS

Gerber Scientific Products, Inc. offers two 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.

Abrasion Guard SPF™ is a clear, top-coat GerberColor Foil designed to protect graphics from moderate contact or handling.

CUTTING

Series 210 can be cut on any Gerber 15" sprocketed plotter, or any Gerber FasTrack™ or Odyssey™ plotter. A 30° SuperSharp blade is recommended. Plotters can be set to full speed.

The minimum recommended cutting height for text is .375". This recommendation is based upon evaluations using upper case Helvetica Medium copy. Users should verify their own ideal cut heights based upon their specific cutting equipment. The user should perform a test cut to determine the ideal tool force setting.

Excess film should be weeded within 24 hours of cutting to minimize the effect of adhesive flow.

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, 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.

Some polycarbonate substrates may weaken when certain films are applied to them. Because of this possibility, the user will need to determine if safety items such as helmets, safety shields, and some windshields are compatible with their film's adhesive.

Many paint systems (e.g. two-part urethane) and some plastic 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. Plastics should be dried at 150°F (66°C) for 24 hours prior to application to help avoid outgassing.

APPLICATION TECHNIQUES

Dry application methods should be used with Series 210 and panels should be overlapped. Gerber standard tack application tape is required to be used as the transfer carrier.

PHYSICAL PROPERTIES

Thickness	3 mil with adhesive
Film Color	Mirror Silver or Mirror Gold
Adhesive	PSA
Adhesive Color	Clear
Liner	Synthetic, Transparent
Tensile Strength	7.7 lb/in/min (3.5 kg/cm/min)
Elongation	50% at 73°F (23°C)
Minimum Application Temp.	40°F (4°C)

CHEMICAL RESISTANCE (UNPRINTED)

Chemical Agent	Exposure Time	Result
Reference fuel	1 hour	Edge softening
#1 diesel fuel	1 hour	Edge softening
10% Hydrochloric acid	10 minutes	No effect
10% Ammonium Hydroxide	10 minutes	No effect

RELATED LITERATURE

GerberColor Spot (GCS) Series, GerberColor Process (GCP) SUPER CMYK Series, GerberColor Medal (GCM) Series, GerberColor Transparent (GCT) Series, and Gerber Guard, and Abrasion Guard SPF (GerberColor Finishing GCF) Product Bulletins.

For help with questions concerning Gerber products, please call your distributor or Gerber Customer Service at 1-800-222-7446 or (860) 643-1515.

Gerber EDGE and EDGE2 are Registered Trademarks of Gerber Scientific Products, Inc.

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