



# Gerber High Performance Series 230 Translucent

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## DESCRIPTION

Gerber High Performance Series 230 is a high performance translucent film made exclusively for Gerber. Series 230 is a durable, dimensionally stable film with a clear, pressure-sensitive adhesive designed to withstand a variety of severe weather and handling conditions. It is available in a variety of colors and is an EDGE READY material in 15" Punched format. Series 230 comes on a synthetic liner.

## INTENDED APPLICATIONS

Series 230 is intended for making permanent, durable printed graphics using Gerber thermal printing devices. It is well suited for flat, internally illuminated sign faces and for first surface applications to 3M™ Panaflex 945™ substrate.

## PERFORMANCE LIFE – (UNPRINTED)

The exterior performance life of Gerber Series 230 is based upon field experience and exposure tests conducted throughout the United States. When the graphics are processed and used according to Gerber recommendations, they should have the performance life shown in the charts below. The actual performance depends on the following conditions:

- Selection and preparation of substrate
- Application methods
- Exposure conditions
- Cleaning methods

Series 230	U.S. <sup>1</sup> years	S. W. <sup>2</sup> Years
Signs Only, Vertical Exposure - Face of graphic is vertical 90° +/- 10°		
Unprinted, applied to first surface	6	5

1. For exterior performance life statements outside of the United States, contact Gerber Scientific Products, Inc.
2. The United States Desert Southwest area includes Arizona, New Mexico, and the desert areas of California, Nevada, Utah, and Texas.

## 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.

## PRINTING

Use Gerber Series 230 settings when printing with the GERBER EDGE™. Gerber standard tack application tape is required to be used as the transfer carrier for all printed graphics.

Series 230 is compatible with GerberColor™ Process (GCP), Spot (GCS), Transparent (GCT), Medal (GCM) and Finishing (GCF) foil sets.

## PROTECTING GRAPHICS

Gerber Scientific Products, Inc. offers several products that are designed to protect vinyl and printed graphics.

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

Gerber UV Guard G5 is a 1 mil high gloss clear polyester film that is graffiti resistant and provides 5 year protection from the sun.

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

Matte Clear is a matte, top-coat GerberColor Foil designed to protect graphics from moderate contact or handling and to provide a matte finish to reduce glare.

## CUTTING

EDGE graphics printed on Series 230 can be cut on any 15" sprocketed plotter. Non-printed graphics can be cut on friction cutters or the Gerber ODYSSEY™.

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.

Series 230 typically adheres to solar-grade polycarbonate substrates. However, some lots of this substrate may inhibit the adhesion of this film. Polycarbonate substrates may require drying by baking before use. Refer to the manufacturers' instructions.

Many paint systems (e.g. two-part urethane) and some plastic substrates will outgas if they are not fully cured. Out gassing can cause permanent bubbling in most films; substrates should be tested for out gassing prior to final application. Plastics should be dried at 150°F (66°C) for 24 hours prior to application to help avoid out gassing.

## CHANNEL LETTERS

When using Series 230 on rigid plastic channel letter faces, avoid contact with the adhesive used to attach the trim cap edges. These adhesives attack Series 230 and cause curling, lifting and premature failure of the film.

## APPLICATION TECHNIQUES

Both wet and dry application methods can be used with Series 230. Panels should be overlapped by 0.0625 (1/16"). Gerber standard tack application tape is recommended for all EDGE printed applications.

## PRODUCT CHARACTERISTICS

Property	Description
Thickness (film)	2 mils
Film color	See color chart
Adhesive	Clear, pressure sensitive
Liner	Synthetic
Application substrates	For flat surfaces without rivets
Application surfaces	Flexible signage, glass, acrylic, polycarbonate
Removability	Permanent

## PHYSICAL PROPERTIES

Property	English Units	Metric Units
Dimensional Stability	0.015in	0.4mm
Service temperature range	-50° to +170°F	-45° to +77°C
Tensile Strength	5 lbs/in at 73°F	0.9 kg/cm at 23°C
Min. Application Temperature	60°F	16°C

For help with questions concerning Gerber products, please call your distributor or Gerber Sales Support at 1-800-222-7446 or (860) 644-1551. Additional information can be found on the Gerber web site at [www.gspinc.com](http://www.gspinc.com).

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