

# Gerber ImageCal™ "P" Permanent Clear Vinyl

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#### **DESCRIPTION**

Gerber ImageCal "P" (non-removable) is a 3.5-mil, durable, clear, calendered vinyl designed for use with the GERBER EDGE®, GERBER EDGE 2®, and GERBER EDGE FX™ thermal transfer printing systems, in conjunction with GerberColor™ Foils.

### INTENDED APPLICATIONS

Gerber ImageCal "P" (non-removable) is ideally suited for interior and short-term exterior emblems, signs, second-surface applications, point of purchase, and window displays. The user should determine the suitability of all substrates prior to actual application.

This film is not recommended for use on corrugated or highly irregular surfaces. It is also not intended for applications where petrochemical contact may occur. If petrochemical exposure is anticipated, refer to the section below on protecting graphics.

# PERFORMANCE LIFE (UNPRINTED)

Gerber ImageCal "P" (non-removable) has an expected performance life of up to two years when applied vertically.

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 70°F (21°C) and 50% relative humidity.

Use a paper interleaf between layers of stacked or rolled printed materials. Do not stack printed graphics face to face.

#### **PRINTING**

If your software material selection palette does not have Gerber ImageCal "P" (non-removable), use Scotchcal™ Series 220 or Gerber HP Series 220 normal print settings.

GerberColor Spot (GCS), GerberColor Process Pro™ CMYK (GCP), GerberColor Medal (GCM), and GerberColor Transparent (GCT) Series Foils can be used to print onto ImageCal "P".

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™ 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 for 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 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 up to 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 up to three years.

#### **CUTTING**

Gerber ImageCal "P" (non-removable) can be cut on any 15-inch EDGE-compatible sprocketed plotter. A 30° SuperSharp blade is recommended. Plotters can be set to full speed.

The user should perform a test cut to determine the ideal tool force setting.

#### 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, solvent 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 vinyl 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 vinyl's adhesive.

Many paint systems (e.g. two-part urethane) and some polycarbonate 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.

#### **APPLICATION TECHNIQUES**

Wet or dry application methods can be used with Gerber ImageCal "P" (non-removable) and panels should be overlapped.

Gerber standard tack application tape is required for all EDGE-printed graphics.

## **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

| Thickness             | 4.5 mil (with adhesive) |
|-----------------------|-------------------------|
| Film Color            | Clear                   |
| Adhesive              | PSA, permanent          |
| Adhesive Color        | Clear                   |
| Liner                 | Layflat                 |
| Dimensional Stability | Fair                    |

| Minimum Application Temp | 50°F (10°C)                    |
|--------------------------|--------------------------------|
| Operating Temperature    | -40°F to 176°F (-40°C to 80°C) |

### **RELATED LITERATURE**

Refer to Product Bulletins of relevant foils and materials for product-specific handling, production, and finishing information.

# **CONTACT INFORMATION**

Graphic Marking Systems • 800-232-8018 • www.ShopGMS.com

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