PRODUCT BULLETIN

Gerber U.L.® Recognized Label Stocks

DESCRIPTION

Gerber Label Stocks are dimensionally stable, polyester-based films that resist tearing, abrasion and heat. They have been formulated for use with the GERBER EDGE®, GERBER EDGE 2®, and GERBER EDGE FX™ thermal transfer printing systems, in conjunction with GerberColor™ Foils*. They are backed with a 90-lb layflat liner and coated with a high-performance acrylic adhesive.

The U.L. recognized Gerber Label Stocks are available in 1 or 2-mil Clear, White, Brushed Silver, Brushed Gold, and 2-mil Matte Silver. They are all formulated for both interior and exterior applications, with the exception of Brushed Gold Label stock which is for interior applications only.

INTENDED APPLICATIONS

Gerber Label Stocks are ideally suited for a wide variety of commercial and industrial label applications in which durability, heat resistance and dimensional stability are required.

These films are not intended for backlit or vehicle applications. They should be applied to flat surfaces that are clean and dry.

APPLICATION TECHNIQUES

Dry application methods should be used with Gerber Label Stocks and panels should be butted.

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

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.

PERFORMANCE LIFE (UNPRINTED)

Gerber Label Stocks (White, Clear, Brushed Silver, and Matte Silver) have an expected exterior durability of up to two years when applied vertically. Brushed Gold Label stock is for interior applications only.

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. Extreme temperature cycling over a short time may result in film cracking. This product is not recommended for horizontal applications.

PRINTING

If your software material selection palette does not have Gerber Label Stocks, use Gerber HP Series 220 or 3M I™ Scotchcal™ 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 Gerber Label Stock. If your application requires a U.L. recognized component construction, be certain to use only the GerberColor Series that have the following U.L. recognition sticker:

Recommended working environment is as follows:

- Operating temperature: 50ºF to 95ºF / 10ºC to 35ºC
- Recommended temperature for assured printing accuracy: 68ºF to 78ºF / 20ºC to 26ºC
- Operating humidity: 20% to 90% relative humidity, non-condensing (maximum range; actual range varies by material used)

CUTTING

Gerber Label Stocks can be cut on any 15-inch EDGE-compatible sprocketed plotter. A 30° SuperSharp blade is recommended. Plotters can be set to full speed.

PROTECTING GRAPHICS

Gerber Scientific Products®, Inc. 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 is a 1-mil, glossy, clear, mildew and graffiti-resistant, polyvinylfluoride 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 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.

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 70°F (21°C) and humidity at 50%.

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.

U.L. RECOGNITION

Gerber Label Stock has been recognized for use by Underwriters Laboratories, Inc.® on several different types of substrates through differing temperature extremes. The U.L. file number is MH25192. It is UL969 certified, UL file number PGJI2.MH25192.

PHYSICAL PROPERTIES

Thickness	1 or 2 mil (See Description)
Film Color	Clear, White, Matte Silver, Brushed Gold, and Brushed Silver
Adhesive	Pressure-sensitive acrylic
Adhesive Color	Clear
Liner	90-lb layflat
Tensile Strength	N/A
Elongation	0
Dimensional Stability	No measurable shrinkage
Application Temp	32°F to 100°F (0°C to 38°C)
Service Temp	-20°F to 257°F (-29°C to 125°C)
Removal Temp	N/A

CHEMICAL RESISTANCE (UNPRINTED)

Chemical Agent	Result
Household cleaners	No effect
Mild acids	No effect
Motor Oil	No effect
Water	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.

* Gerber Scientific Products provides one material that has not been formulated for use with Gerber Digital Imaging Systems. This product is Brushed Aluminum. This specific product is neither EDGE READY nor IMAGE READY.

Category: EDGE READY™ **FastFact #**: 5549 **Supplied by**: Atermarkets **Last Modified**: 9/12/13

Gerber Label Stock UL Recognition Data Table*

		Gerber Label Stocks**											
		Clear				White				Matte Silver Brushed Silver Brushed Gold			
		1 Mil		2 Mil		1 Mil		2 Mil		1 Mil		2 Mil	
		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
Substrate	Aluminum, Alkyd Base Enamel	257°F (125°C)	-40°F (-40°C)	257°F (125°C)	-40°F (-40°C)	302°F (125°C)	-40°F (-40°C)	302°F (125°C)	-40°F (-40°C)	302°F (125°C)	-40°F (-40°C)	302°F (125°C)	-40°F (-40°C)
	Acrylic Paint	257°F (125°C)	-40°F (-40°C)	257°F (125°C)	-40°F (-40°C)	302°F (125°C)	-40°F (-40°C)	302°F (125°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)
	Acrylonitrile Butadiene Styrene (ABS) Plastic	176°F (80°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)
	Galvanized Steel	n/a	n/a	257°F (125°C)	-40°F (-40°C)	302°F (125°C)	-40°F (-40°C)	302°F (125°C)	-40°F (-40°C)	302°F (125°C)	-40°F (-40°C)	302°F (125°C)	-40°F (-40°C)
	Polyester Paint	212°F (100°C)	-20°F (-29°C)	212°F (100°C)	-20°F (-29°C)	302°F (125°C)	-20°F (-29°C)	302°F (125°C)	-20°F (-29°C)	257°F (125°C)	-20°F (-29°C)	257°F (125°C)	-20°F (-29°C)
	Nylon, Melamine Plastic, Polycarbonate, Phenolic Plastic	212°F (100°C)	-20°F (-29°C)	212°F (100°C)	-20°F (-29°C)	212°F (100°C)	-20°F (-29°C)	212°F (100°C)	-20°F (-29°C)	212°F (100°C)	-20°F (-29°C)	212°F (100°C)	-20°F (-29°C)
	Polypropylene Plastic	176°F (80°C)	n/a	140°F (60°C)	n/a	176°F (80°C)	n/a	176°F (80°C)	n/a	176°F (80°C)	n/a	176°F (80°C)	n/a
	Polystyrene Plastic	176°F (80°C)	-20°F (-29°C)	176°F (80°C)	-20°F (-29°C)	176°F (80°C)	-20°F (-29°C)	176°F (80°C)	-20°F (-29°C)	176°F (80°C)	-20°F (-29°C)	176°F (80°C)	-20°F (-29°C)
	Porcelain	212°F (100°C)	-20°F (-29°C)	212°F (100°C)	-20°F (-29°C)	302°F (125°C)	-20°F (-29°C)	302°F (125°C)	-20°F (-29°C)	212°F (100°C)	-20°F (-29°C)	212°F (100°C)	-40°F (-40°C)
	Stainless Steel	212°F (100°C)	-20°F (-29°C)	212°F (100°C)	-20°F (-29°C)	302°F (125°C)	-20°F (-29°C)	302°F (125°C)	-20°F (-29°C)	212°F (100°C)	-20°F (-29°C)	n/a	n/a
	Unsaturated (Thermoset) Polyester Plastic	140°F (60°C)	-40°F (-40°C)	140°F (60°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)	176°F (80°C)	-40°F (-40°C)

* Suitable where exposed indoors to high humidity or occasional exposure to water or lubricating oils.
Also suitable where exposed outdoors affixed to substrates tested above at their particular listed exposure temperatures.

**Label material suitable for additional printing using the combination of GerberColor® Spot Color Series, GerberColor® Process Color Series, and thermal transfer printing equipment. For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.