

# PRODUCT CHARACTERISTIC SHEET

**PLEASE READ BEFORE USING!**

Material: **CONVEX® 8 mil. Laminate**

**General Description:** Clear soft flexible vinyl with a clear permanent acrylic adhesive. Used for over-laminating when conformability is necessary. Different combinations of Convex® base materials and Convex® laminate can be used to achieve a variety of decal thicknesses and selling prices.

Thickness:	8 mil. vinyl with 1.4 mil of adhesive
Outdoor Life:	2 years
Shelf Life:	2 years stored at 70 F & 50%RH
Service Temperature Range:	(-40° F to 176° F)
Minimum Application Temp.:	50° F

**Adhesive Properties:**

General purpose permanent acrylic pressure sensitive adhesive works on most surfaces. Not recommended for low energy plastics.

**Tests performed | results:**

Ultimate Peel from	Average OZ/IN	Test Method
Acrylic	82	ASTM D 903 (Modified for 72 hour dwell time)
Painted Polycarbonate	45	
Polycarbonate	52	
Glass	63	
Stainless Steel	53	
Polypropylene	13	
<b>Expected Shear</b> Room Temp (hours)	20	ASTM D 3654 Method A a. 1 hr dwell b. 1 sq. in. surface c. 4 lb. load
<b>Tack (gm/sq cm)</b>	180	ASTM D 2979

**Recommended Application Techniques:**

On curved surfaces such as helmets, apply by rubbing from the center out. When using Convex® as a Laminate, as it is separated from the liner, if there is too much drag tension applied to the supply roll, it can stretch and curl up immediately after it is cut on a plotter. Laminate with a cold pressure sensitive laminator or by hand.

**Omega Software Settings:**

Please perform test cuts to determine the best cutter settings for the finished base materials and laminate construction.

**USE A 45° blade or 60° BLADE on any combination of material 8 mil or thicker.**

Disclaimer:

All of the descriptive information listed above is our recommendation only. This information does not suggest or constitute a written or verbal warranty or guaranty of any kind by the manufacturer or distributor of this product. Although this material can be printed on with some solvent based printers, the surface characteristics of the material can change from roll to roll, and failure of optimal printing results are not a basis for returning the product. Purchasers of this product shall be responsible for independently determining the suitability of the material for the intended application.  
GT0121 Gerber Technology

# Material Safety Data Sheet (MSDS)

**Material Name:** CONVEX® 8 mil. Laminate

**Company:**

Gerber Technology

Date Prepared:

Address: 24 Industrial Park Rd. W

Tolland, CT 06084-2806

**General Description:** Clear soft flexible vinyl with a clear permanent acrylic adhesive.

Phone: 800-222-7446

**Composition and information on ingredients:**

Individual components of this product do not contribute to any known hazards.

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200): NONE

**UL Recognized:** NO

**ROHS Compliant\*:** YES

**REACH Compliant:** YES

**Hazards Identification:**

POTENTIAL HEALTH EFFECTS: None

ACUTE: No significant toxic hazard. When burned may produce toxic fumes.

CHRONIC: No significant toxic hazard.

\* RoHS, EU Directives 2002/95/EC and 2003/11/EC and RoHS2, EU Directive 2011/65/EU

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

**First Aid Measures:**

Emergency and First Aid Procedures:

**ROUTES OF ENTRY:**

Inhalation: N/A Skin: N/A

Eyes: N/A Ingestion: N/A

**Fire Fighting Measures:**

Flash Point: N/A

Method Used: N/A

Auto-ignition Temperature: N/A

Flamable limits in Air % by Volume: LEL: N/A, UEL: N/A

Extinguishing Media: Multi-rated ABC extinguisher or water

Unusual Fire and Explosion Hazards: None

**Accidental Release Measures:** N/A

**Handling and Storage:**

No special handling required other than storing away from excessive heat sources.

**Special Fire Fighting Procedures:** In case of fire, use self-contained breathing apparatus and full protective equipment - all fires liberate toxic gases.

**Exposure Controls and Personal Protection:**

Respiratory Protection: None required

Skin Protection: No precautions required

Eye Protection: None required

Exposure Guidelines: None established

Engineering Controls: None required

**Physical and Chemical properties:**

Vapor Pressure (mm Hg) N/A Boiling Point: N/A

Vapor Density (air = 1): N/A Melting Point: N/A

Appearance and odor: N/A Reactivity of water: N/A

Specific Gravity (H 0=1) N/A Solubility in water: N/A

**Toxicological Information:**

Carcinogen Status: NTP: NONE IARC: NONE OSHA: NONE

**Stability and Reactivity:**

Stability: N/A

Conditions to avoid: Fire or Excessive Heat

Incompatibility: None

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur.

**Ecological Information:** No Data Available

**Transport Information:**

TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping.

**Regulatory Information:**

**Disposal Considerations:** Waste Disposal:  
Dispose of in accordance with Local, State and Federal regulations.

**OSHA STANDARD CFR 29, PART 1910.1200:** This product is considered to be an "article" under this standard.

**Other Information:**

The information contained herein is based on the data available to the OEM, and is believed to be correct. However, Gerber Technology makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Gerber Technology and its distributors assume no responsibility for injury from the use of the product described herein.

**SARA 313 INFORMATION:** This product contains no substances at or above the reporting threshold subject to the reporting requirement of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 371, based on available data.

**CALIFORNIA PROPOSITION 65:** The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. **Warning** this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. This product contains up to 0.01% Toluene in the adhesive.