

PRODUCT CHARACTERISTIC SHEET

PLEASE READ BEFORE USING!

Material: CONVEX® GearWrap™ Clear and White 4 mil.

General Description: Clear and White, soft, flexible vinyl with a clear permanent acrylic adhesive. Different combinations of Convex® or Pro-Shield™ laminates may be used to achieve a variety of decal thicknesses.

Thickness:	4 mil. vinyl with 1 mil of adhesive	Adhesive Properties: General purpose adhesive works on most surfaces. Gearwrap™ adhesive is formulated to remove cleanly from most surfaces for up to a year after it is applied.
Outdoor Life:	2 years	
Shelf Life:	1 yr. stored at 70 F & 50%RH	
Service Temperature Range:	(-40° F to 176° F)	
Minimum Application Temp.:	50° F	

Tests performed | results:

Ultimate Peel from	Average OZ/IN	Test Method
Acrylic	60	ASTM D 903 (Modified for 72 hour dwell time)
Painted Polycarbonate	27	
Polypropylene	14	
Glass	56	
Stainless Steel	54	
Expected Shear Room Temp (hours)	15	ASTM D 3654 Method A a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load
Tack (gm/sq cm)	500	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 will curl up immediately after it is cut on a plotter. Laminate with a cold pressure sensitive laminator or by hand.

Omega Software Settings:

In Omega, design the job on 3M 220 vinyl. Or in Gerber's Plot program, click on the "123" button, then on the substitute button and select vinyl. Then select 3M 220 Premium or Gerber ImageCal from the pull-down menu as the vinyl to print on. If you are using laminates on top of the base material, we recommend test cutting to determine the best cutter settings.

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® GearWrap™ Clear & White 4 mil.	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		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>UL Recognized:</td> <td style="text-align: center;">NO</td> </tr> <tr> <td>ROHS Compliant*:</td> <td style="text-align: center;">YES</td> </tr> <tr> <td>REACH Compliant:</td> <td style="text-align: center;">YES</td> </tr> </table>	UL Recognized:	NO	ROHS Compliant*:	YES	REACH Compliant:	YES
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. 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.		* RoHS, EU Directives 2002/95/EC and 2003/11/EC and RoHS2, EU Directive 2011/65/EU						
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 Special Fire Fighting Procedures: In case of fire, use self-contained breathing apparatus and full protective equipment - all fires liberate toxic gases.							
Accidental Release Measures: N/A								
Handling and Storage: No special handling required other than storing away from excessive heat sources.								
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: OSHA STANDARD CFR 29, PART 1910.1200: This product is considered to be an "article" under this standard. 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.							
Disposal Considerations: Waste Disposal: Dispose of in accordance with Local, State and Federal regulations.								
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.								