

# PRODUCT CHARACTERISTIC SHEET and COC

***PLEASE READ BEFORE USING!***

**Material: CONVEX® GearWrap™ Clear 8 mil.**

**Part Nos: C81550C & C81510C**

**General Description:** Clear soft flexible vinyl with a clear permanent acrylic adhesive. Used for thermal resin transfer printing and can be used for over-laminating. Different combinations of 15" Convex® and 13" Convex® laminate can be used to achieve a variety of decal thicknesses and selling prices.

Thickness:	8 mil. vinyl with 1 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 adhesive works on most surfaces. Gearwrap™ adhesive is formulated to remove cleanly from most surfaces for up to a year after it is applied.

**Tests performed | results:**

Ultimate Peel from	Average OZ/IN	Test Method	
Acrylic	120	ASTM D 903 (Modified for 72 hour dwell time)	
Painted Polycarbonate	45		
Polypropylene	10		
Glass	118		
Stainless Steel	99		
<b>Expected Shear</b> Room Temp (hours)	60	ASTM D 3654 Method A	a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load
<b>Tack (gm/sq cm)</b>	490	ASTM D 2979	

**CERTIFICATE OF CONFORMANCE (COC)**

<b>Sold to:</b>		<b>Lot No.:</b>	
<b>Buyer:</b>		<b>PO#</b>	
<b>Supplier:</b>	Graphic Marking System	<b>MFR Part No:</b>	Top of the page
<b>MFR Date:</b>		<b>Ship Date:</b>	
		<b>Title:</b>	Converting Manager

**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.

**GSP Software Settings:**

In Gerber's Plot program, click on the "123" button then on the substitute button and select vinyl. 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, you will have to determine the best cutter settings by test cutting the finished 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. GMS0612 Graphic Marking Systems

# Material Safety Data Sheet (MSDS)

<b>Material Name: CONVEX® GearWrap™ Clear 8 mil.</b>		<b>Company:</b>	
<b>Part Nos: C81550C &amp; C81510C</b>		Graphic Marking Systems	
Date Prepared: 8/24/2015		Address: 28457 N. Ballard Rd., Suite A1 Lake Forest, IL 60045	
<b>General Description:</b> Clear soft flexible vinyl with a clear permanent acrylic adhesive.		Phone: 847-582-9276 Fax: 847-582-9282	
<b>Composition and information on ingredients:</b>		<b>UL Recognized:</b>	<b>NO</b>
Individual components of this product do not contribute to any known hazards.		<b>ROHS Compliant:</b>	<b>YES</b>
OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): NONE		<b>REACH Compliant:</b>	<b>YES</b>
<b>Hazards Identification:</b>			
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.			
<b>First Aid Measures:</b>		<b>Fire Fighting Measures:</b>	
Emergency and First Aid Procedures:		Flash Point: N/A	
<b>ROUTES OF ENTRY:</b>		Method Used: N/A	
Inhalation: N/A      Skin: N/A		Auto-ignition Temperature: N/A	
Eyes: N/A      Ingestion: N/A		Flamable limits in Air % by Volume: LEL: N/A, UEL: N/A	
<b>Accidental Release Measures:</b> N/A		Extinguishing Media: Multi-rated ABC extinguisher or water	
<b>Handling and Storage:</b>		Unusual Fire and Explosion Hazards: None	
No special handling required other than storing away from excessive heat sources.		<b>Special Fire Fighting Procedures:</b> In case of fire, use self-contained breathing apparatus and full protective equipment - all fires liberate toxic gases.	
<b>Exposure Controls and Personal Protection:</b>		<b>Physical and Chemical properties:</b>	
Respiratory Protection: None required		Vapor Pressure (mm Hg): N/A      Boiling Point: N/A	
Skin Protection: No precautions required		Vapor Density (air = 1): N/A      Melting Point: N/A	
Eye Protection: None required		Appearance and odor: N/A      Reactivity of water: N/A	
Exposure Guidelines: None established		Specific Gravity (H 0=1): N/A      Solubility in water: N/A	
Engineering Controls: None required		<b>Stability and Reactivity:</b>	
<b>Toxicological Information:</b>		Stability: N/A	
Carcinogen Status: NTP: NONE      IARC: NONE      OSHA: NONE		Conditions to avoid: Fire or Excessive Heat	
<b>Ecological Information:</b> No Data Available		Incompatibility: None	
<b>Transport Information:</b>		Hazardous Decomposition Products: None	
TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping.		Hazardous Polymerization: Will not occur.	
<b>Disposal Considerations:</b> Waste Disposal:		<b>Regulatory Information:</b>	
Dispose of in accordance with Local, State and Federal regulations.		<b>OSHA STANDARD CFR 29, PART 1910.1200:</b> This product is considered to be an "article" under this standard.	
<b>Other Information:</b>		<b>SARA 313 INFORMATION:</b> 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.	
The information contained herein is based on the data available to Graphic Marking Systems, and is believed to be correct. However, Graphic Marking Systems makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Graphic Marking Systems assumes no responsibility for injury from the use of the product described herein.		<b>CALIFORNIA PROPOSITION 65:</b> CALIFORNIA PROPOSITION 65: 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 a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.	