

# PRODUCT CHARACTERISTIC SHEET and COC

## **PLEASE READ BEFORE USING!**

**Material: CONVEX® GearWrap™ 4 mil. White**

**Part Nos: C41550W, C43050W, C45450W, C46050W**

**General Description:** White, soft, flexible vinyl with a clear permanent acrylic adhesive. Convex® GearWrap™ 4 mil base materials are intended to be used for printing with Thermal & Solvent & Eco-Solvent Ink Jets. Different combinations of Convex® or Pro-Shield™ laminates can be used to achieve a variety of decal thicknesses. Convex® GearWrap™ is specially formulated to work with Convex® laminates for helmet and other complex curved applications.

Thickness: 3 mil. vinyl with 1 mil of adhesive

Outdoor Life: 2 years

Shelf Life: 6 months stored at 70 F & 50%RH

Service Temperature Range: (-40° F to 176° F)

Minimum Application Temp.: 50° F

### **Adhesive Properties:**

1 mils. of permanent, yet cleanly removable for up to a year, acrylic pressure sensitive adhesive. For most high energy surfaces. Not recommended for low energy plastics or powder paint coatings.

### **Tests performed | results:**

Ultimate Peel from	Average OZ/IN	Test Method
Acrylic	76	ASTM D 903 (Modified for 72 hour dwell time)
Glass	75	
Polypropylene	16	
Stainless Steel	65	
<b>Expected Shear</b> Room Temp (hours)	75	ASTM D 3654 Method A a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load
<b>Tack (gm/sq cm)</b>	310	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
		<b>Date:</b>	

### **Recommended Application Techniques:**

On curved surfaces such as helmets, apply by rubbing from the center out. Recommended laminates are Convex 4 or 8 mil Convex. When any laminate is separated from the liner it is unsupported and can stretch during the laminating process. If there is too much reverse tension (drag) applied on the supply roll, it will stretch and curl up immediately when it is cut.

### **GSP Software Settings:**

GERBER SETTINGS: In the Gerber Plot program, select the Print Options (F11) button and then substitute vinyl. Use the 220 Scotchcal or ImageCal setting for the best results. Do a test cut to determine the proper cut speed and force for the base and laminate combination.

**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. GMS0718 Graphic Marking Systems

# Material Safety Data Sheet (MSDS)

**Material Name:** CONVEX® GearWrap™ 4 mil. White

**Part Nos:** C41550W, C43050W, C45450W, C46050W

**Date Prepared:** 7/5/2018

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

**Company:**

Graphic Marking Systems

**Address:** 28457 N. Ballard Rd., Suite A1  
Lake Forest, IL 60045

**Phone:** 847-582-9276

**Fax:** 847-582-9282

## 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.

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

**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

## Toxicological Information:

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

**Ecological Information:** No Data Available

## Transport Information:

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

**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 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.

## 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.

## 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

## Stability and Reactivity:

Stability: N/A

Conditions to avoid: Fire or Excessive Heat

Incompatibility: None

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur.

## 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.