

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		
Expected Shear Room Temp (hours)	75	ASTM D 3654 Method A	a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load
Tack (gm/sq cm)	310	ASTM D 2979	

CERTIFICATE OF CONFORMANCE (COC)

Sold to:				Lot No.:	
Buyer:		PO#		Supplier's Authorized Rep.:	
Supplier:	Graphic Marking Systems	MFR Part No:	Top of the page	Title:	Converting Manager
MFR Date:		Ship Date:		Date:	

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. GMS0612 Graphic Marking Systems

Material Safety Data Sheet (MSDS)

Material Name: CONVEX® GearWrap™ 4 mil. White		Company:	
Part Nos: C41550W, C43050W, C45450W, C46050W		Graphic Marking Systems	
Date Prepared: 8/24/2015		Address: 28457 N. Ballard Rd., Suite A1 Lake Forest, IL 60045	
General Description: White soft flexible vinyl with a clear permanent acrylic adhesive.		Phone: 847-582-9276 Fax: 847-582-9282	
Composition and information on ingredients:		UL Recognized:	NO
Individual components of this product do not contribute to any known hazards.		ROHS Compliant:	YES
OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200): NONE		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:		Fire Fighting Measures:	
Emergency and First Aid Procedures:		Flash Point: N/A	
ROUTES OF ENTRY:		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	
Accidental Release Measures: N/A		Extinguishing Media: Multi-rated ABC extinguisher or water	
Handling and Storage:		Unusual Fire and Explosion Hazards: None	
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:		Physical and Chemical properties:	
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		Stability and Reactivity:	
Toxicological Information:		Stability: N/A	
Carcinogen Status: NTP: NONE IARC: NONE OSHA: NONE		Conditions to avoid: Fire or Excessive Heat	
Ecological Information: No Data Available		Incompatibility: None	
Transport Information:		Hazardous Decomposition Products: None	
TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping.		Hazardous Polymerization: Will not occur.	
Disposal Considerations: Waste Disposal:		Regulatory Information:	
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:		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.	
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.		CALIFORNIA PROPOSITION 65: 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.	