

# PRODUCT CHARACTERISTIC SHEET and COC

**PLEASE READ BEFORE USING!**

*Made in the USA!*

Material: **CONVEX® High-Bond**

Part Nos: CHB61550W, CHB61550C & CHB63050W, CHB63050C

**General Description:** Clear and White, soft, flexible vinyl with a clear permanent acrylic adhesive. Please use Convex® High-Bond Matte for ink jet printing. Different combinations of Convex® or Pro-Shield™ laminates can be used to achieve a variety of decal thicknesses. Please see the disclaimer at the bottom.

Thickness: 3.8 mil. vinyl with 2 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:**

2 mils. of permanent acrylic pressure sensitive adhesive works for most surfaces including textured low energy plastic and metal surfaces

**Tests performed | results:**

Ultimate Peel from	Average OZ/IN	Test Method	
Acrylic	150	ASTM D 903 (Modified for 72 hour dwell time)	
Glass	156		
Polypropylene	32		
Stainless Steel	134		
<b>Expected Shear</b> Room Temp (hours)	30	ASTM D 3654 Method A	a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load
<b>Tack</b> (gm/sq cm)	1100	ASTM D 2979	

**Conforms to MIL-DTL-4371D TYPE 1 CLASS 1**

**CERTIFICATE OF CONFORMANCE (COC)**

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

**Recommended Application Techniques:**

On curved surfaces such as MX bike plastics, clean the plastic with alcohol or acetone to remove any "silicone" mould residue from the plastic. Apply to clean dry surfaces. Use the aid of a heat gun if you are laminating with Pro-Shield™ laminate to get the finished graphic to conform to curvy shapes.

**GSP Software Settings:**

6 mil. 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. GMS0522 Graphic Marking Systems

# Material Safety Data Sheet (MSDS)

<b>Material Name:</b> CONVEX® High-Bond		<b>Company:</b>  Graphic Marking Systems  Address: 28457 N. Ballard Rd., Suite A1 Lake Forest, IL 60045  Phone: 847-582-9276 Fax: 847-582-9282	
<b>Part Nos:</b> CHB61550W & CHB61550C			
Date Prepared:			
<b>General Description:</b> Clear and White, soft, flexible vinyl with a clear permanent acrylic adhesive.			
<b>Composition and information on ingredients:</b>  Individual components of this product do not contribute to any known hazards.  OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): NONE		<b>UL Recognized:</b> NO <b>ROHS Compliant*:</b> YES <b>REACH Compliant:</b> YES	
<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>* RoHS, EU Directives 2002/95/EC and 2003/11/EC and RoHS2, EU Directive 2011/65/EU</b>	
<b>First Aid Measures:</b>  Emergency and First Aid Procedures:  <b>ROUTES OF ENTRY:</b>  Inhalation: N/A      Skin: N/A Eyes: N/A      Ingestion: N/A		<b>Fire Fighting Measures:</b>  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	
<b>Accidental Release Measures:</b> N/A		<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>Handling and Storage:</b>  No special handling required other than storing away from excessive heat sources.		<b>Physical and Chemical properties:</b>	
<b>Exposure Controls and Personal Protection:</b>  Respiratory Protection: None required Skin Protection: No precautions required Eye Protection: None required Exposure Guidelines: None established Engineering Controls: None required		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	
<b>Toxicological Information:</b>  Carcinogen Status: NTP: NONE    IARC: NONE    OSHA: NONE		<b>Stability and Reactivity:</b>  Stability: N/A Conditions to avoid: Fire or Excessive Heat Incompatibility: None Hazardous Decomposition Products: None Hazardous Polymerization: Will not occur.	
<b>Ecological Information:</b> No Data Available		<b>Regulatory Information:</b>	
<b>Transport Information:</b>  TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping.		<b>OSHA STANDARD CFR 29, PART 1910.1200:</b> This product is considered to be an "article" under this standard.	
<b>Disposal Considerations:</b> Waste Disposal: Dispose of in accordance with Local, State and Federal regulations.		<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.	
<b>Other Information:</b>  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> The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. <b>Warning</b> 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 0.2% Toluene in the adhesive.	