

# PRODUCT CHARACTERISTIC SHEET and COC

**PLEASE READ BEFORE USING!**

**Material: CONVEX® 12 mil. BIG DOG™ Laminate**

**Part Nos: C121350C, C123050C, C125450C**

**General Description:** Thick, clear, soft flexible vinyl with a clear permanent acrylic adhesive. Used for over-laminating when conformability is necessary. Different combinations of Convex®, Motowrap, and other base media and laminates can be used to achieve a variety of decal thicknesses and selling prices.

Thickness:	12 mil. vinyl plus 2 mils of adhesive
Outdoor Life:	2 years
Shelf Life:	1 year stored at 70 F & 50%RH
Service Temperature Range:	(-35° F to 212° F)
Minimum Application Temp.:	25° F

**Adhesive Properties:**

Special purpose crystal clear permanent acrylic pressure sensitive laminating adhesive works with highly plasticized vinyl.

**Tests performed | results:**

Ultimate Peel from	Average OZ/IN	Test Method
Stainless Steel	62	ASTM D 903 (Modified for 24 hour dwell time)
<b>Expected Shear</b> Room Temp (hours)	10	ASTM D 3654 Method A a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load
<b>Tack</b> (gm/sq cm)	365	ASTM D 2979

Reagent	Recommendation	Solvent Resistance:
Water	Recommendation	The film is laminated to stainless steel panel and allowed to condition for 24 hours at room temperature before testing. The sample is then covered with reagent to the point that edges of product are also exposed to the reagent. The product is exposed to reagent for one hour at room temperature, then reagent is removed, and the product is immediately tested for scrape resistances, delaminating, and other visual effects.
10% Saltwater	Recommendation	
Bleach	Recommendation	
Ammonia	Recommendation	
Detergent	Recommendation	
All Purpose Cleaner	Recommendation	
Glass Cleaner	Recommendation	
99% IPA	Recommendation	
Gasoline	Recommendation	
Disinfectant	Recommendation	

**Recommended Application Techniques:**

Laminate with a cold pressure sensitive laminator or by hand. On curved surfaces, 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.

**GSP Software Settings:**

Please perform test cuts to determine the best cutter settings for the finished base materials and laminate 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. GMS1024 Graphic Marking Systems

# Material Safety Data Sheet (MSDS)

<b>Material Name:</b> CONVEX® 12 mil. BIG DOG™ Laminate	<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> C121350C, C123050C, C125450C	
Date Prepared:	
<b>General Description:</b> Clear 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 CFR1910.1200): 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>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>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	<b>Regulatory</b>
	Ozone Depleting Substances: Does not contain
	US TSCA 12 (b): Compliant
	WEEE EU Directive 2002/96/EC: Compliant
	Heavy Metals: Does not contain
	Polybrominatedbiphenyls (PBB): Does not contain
	Polybrominated diphenyl esters (PBDE): Does not contain
	Latex: Does not contain/not tested
	Phthalates: Contains, but below limits of Consumer Product Safety Improvement Act of 2008.
	Halogenated Compounds: Does not contain/not tested
	PFOS / PFOA: Does not contain/not tested
	3TG, Gold, Tin, Tantalum, Tungsten: Does not contain/not tested
	Dimethyl fumarate, Brominated flame: Does not contain/not tested

<b>Toxicological Information:</b> Carcinogen Status: NTP: NONE    IARC: NONE    OSHA: NONE
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<b>Ecological Information:</b> No Data Available
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<b>Transport Information:</b> TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping.
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<b>Disposal Considerations:</b> Waste Disposal: Dispose of in accordance with Local, State and Federal regulations.
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<b>Disclaimer:</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. This product does not contain chemicals at levels that are subject to regulation or labeling under prop 65.
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