

PRODUCT CHARACTERISTIC SHEET and COC

PLEASE READ BEFORE USING!

Material: Pitbull™ Digital Print Vinyl

Part Nos: PB51550W, PB52050W, PB53050W, PB55450W

General Description: White, soft, flexible vinyl with a clear extremely aggressive permanent adhesive suited for hard-to-stick-to surfaces including Thermoplastic Olefin. This vinyl is suited for solvent ink jet printing and thermal printing. Different combinations of Convex™ or Pro-Shield™ laminates can be used to achieve a variety of decal thicknesses.

Thickness:	3 mil vinyl with 2 mil. of adhesive.	Adhesive Properties: 2 mils. of permanent acrylic pressure sensitive adhesive works for most surfaces including textured low energy plastic and metal surfaces
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	

Tests performed | results:

Ultimate Peel from	Average OZ/IN	Test Method
Acrylic	108	ASTM D 903 (Modified for 72 hour dwell time)
Glass	106	
Polypropylene	71	
Polyethylene	80	
Stainless Steel	113	
Expected Shear Room Temp (hours)	40	ASTM D 3654 Method A a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load
Tack (gm/sq cm)	1200	ASTM D 2979

CERTIFICATE OF CONFORMANCE (COC)

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

Recommended Application Techniques:

Pitbull is ideal for LSE applications such as pelican cases and motorsport vehicles. When applying to curved smooth surfaces such as MX bike plastics, clean the plastic with alcohol or acetone to remove any "silicone" mold residue from the plastic. Due to the aggressiveness of the adhesive, wet application techniques may be preferred. If you are laminating with Pro-Shield™ laminate, use the aid of a heat gun to get the finished graphic to conform to complex curved shapes. Pitbull vinyl may not remove cleanly from surfaces.

GSP Software Settings:

In Gerber's Plot program, click on the "123" button then on the substitute button and select vinyl. Gerber Label Stock 2 mil 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. GMS0819 Graphic Marking Systems

Material Safety Data Sheet (MSDS)

Material Name: Pitbull™ Digital Print Vinyl		Company:	
Part Nos: PB51550W, PB52050W, PB53050W, PB55450W		Graphic Marking Systems	
Date Prepared:		Address: 28457 N. Ballard Rd., Suite A1	
General Description: White, soft, flexible vinyl with a clear extremely aggressive permanent adhesive		Lake Forest, IL 60045	
		Phone: 847-582-9276	
		Fax: 847-582-9282	
Composition and information on ingredients:		3TG Compliant: YES	
Individual components of this product do not contribute to any known hazards.		Mil Spec MIL-DTL-43719 Type 1 Class 1	
OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200): NONE		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:		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: 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 0.3% Toluene in the adhesive.	