

PRODUCT CHARACTERISTIC SHEET and COC

PLEASE READ BEFORE USING!

Made in the USA!

Material: PRO-SHIELD12™ mil.

Part Nos: PS12XX50C (part no. where "XX" stands for the width of the roll.)

General Description: Flexible heavy duty clear vinyl with clear permanent acrylic adhesive. Different combinations of base materials and PRO-SHIELD™ can be used to achieve a variety of decal thicknesses and prices.

Thickness:	12-mil vinyl with 1.5 mil.	Adhesive Properties: 1.5 mils. of permanent acrylic pressure sensitive adhesive works for most smooth surfaces.
Outdoor Life:	UV is 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	104	ASTM D 903 (Modified for 72 hour dwell time)	
Glass	74		
Polypropylene	21		
Stainless Steel	70		
Expected Shear Room Temp (hours)	10	ASTM D 3654 Method A	a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load
Tack (gm/sq cm)	300	ASTM D 2979	

CERTIFICATE OF CONFORMANCE (COC)

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

Recommended Application Techniques:

On curved surfaces such as helmets, apply by rubbing from the center out. Convex® brand base materials are recommended in combination with PRO-SHIELD™. Apply with cold laminator or by hand. When Convex® Laminator is separated from the liner it is unsupported and can stretch during the laminating process. If there is too much reverse tension applied on the supply roll it will stretch and curl up immediately when it is cut. Laminate with a cold pressure sensitive laminator or by hand.

RIP Software Settings:

If you have the Gerber enVision 375 Plotter/Cutter, determine the Force by performing test cuts. Or go to Plotter settings "F7" and set the Speed to 50, Acceleration to 50, Sharp Corners to 80 or higher, and Force to 75% or more depending on the age of your blade. A 45 or 60 degree blade is recommended for all cutters cutting this material. Depending on the base material, it may be necessary to make double cuts by "cutting and pasting back" the cut lines in your design program. If you do not have enVision series Gerber cutter, you will have to determine the settings by test cutting the material. If you are using Mac Imprint™, please perform test cuts.

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: PRO-SHIELD12™ mil.		Company:																	
Part Nos: PS12XX50C (where "XX" stands for the width of the roll.)		Graphic Marking Systems																	
Date Prepared: 8/25/2015		Address: 28457 N. Ballard Rd., Suite A1 Lake Forest, IL 60045																	
General Description: Flexible heavy duty clear vinyl with clear permanent acrylic adhesive.		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		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">UL Recognized:</td> <td style="padding: 2px; text-align: center;">NO</td> </tr> <tr> <td style="padding: 2px;">ROHS Compliant:</td> <td style="padding: 2px; text-align: center;">YES</td> </tr> <tr> <td style="padding: 2px;">REACH Compliant:</td> <td style="padding: 2px; text-align: center;">NO</td> </tr> </table>		UL Recognized:	NO	ROHS Compliant:	YES	REACH Compliant:	NO										
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ROHS Compliant:	YES																		
REACH Compliant:	NO																		
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:		Fire Fighting Measures:																	
ROUTES OF ENTRY: Inhalation: N/A Skin: N/A Eyes: N/A Ingestion: N/A		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																	
Accidental Release Measures: N/A		Special Fire Fighting Procedures: In case of fire, use self-contained breathing apparatus and full protective equipment - all fires liberate toxic gases.																	
Handling and Storage: No special handling required other than storing away from excessive heat sources.		Physical and Chemical properties:																	
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		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Vapor Pressure (mm Hg)</td> <td style="padding: 2px; text-align: center;">N/A</td> <td style="padding: 2px;">Boiling Point:</td> <td style="padding: 2px; text-align: center;">N/A</td> </tr> <tr> <td style="padding: 2px;">Vapor Density (air = 1):</td> <td style="padding: 2px; text-align: center;">N/A</td> <td style="padding: 2px;">Melting Point:</td> <td style="padding: 2px; text-align: center;">N/A</td> </tr> <tr> <td style="padding: 2px;">Appearance and odor:</td> <td style="padding: 2px; text-align: center;">N/A</td> <td style="padding: 2px;">Reactivity of water:</td> <td style="padding: 2px; text-align: center;">N/A</td> </tr> <tr> <td style="padding: 2px;">Specific Gravity (H 0=1)</td> <td style="padding: 2px; text-align: center;">N/A</td> <td style="padding: 2px;">Solubility in water:</td> <td style="padding: 2px; text-align: center;">N/A</td> </tr> </table>		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
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Toxicological Information: Carcinogen Status: NTP: NONE IARC: NONE OSHA: NONE		Stability and Reactivity: Stability: N/A Conditions to avoid: Fire or Excessive Heat Incompatibility: None Hazardous Decomposition Products: None Hazardous Polymerization: Will not occur.																	
Ecological Information: No Data Available		Regulatory Information:																	
Transport Information: TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping.		OSHA STANDARD CFR 29, PART 1910.1200: This product is considered to be an "article" under this standard.																	
Disposal Considerations: Waste Disposal: Dispose of in accordance with Local, State and Federal regulations.		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.																	
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.		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.																	