

PRODUCT CHARACTERISTIC SHEET

PLEASE READ BEFORE USING!

Material: **PRO-SHIELD™ 12 mil. Laminate**

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	

Recommended Application Techniques:

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

Omega 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. GT0121 Gerber Technology

Material Safety Data Sheet (MSDS)

Material Name: PRO-SHIELD™ 12 mil.		Company: Gerber Technology	
Date Prepared:		Address: 24 Industrial Park Rd. W Tolland, CT 06084-2806	
General Description: Flexible heavy duty clear vinyl with clear permanent acrylic adhesive.		Phone: 800-222-7446	
Composition and information on ingredients: Individual components of this product do not contribute to any known hazards. OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200): NONE		UL Recognized:	NO
		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:		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: No special handling required other than storing away from excessive heat sources.		Unusual Fire and Explosion Hazards: None	
Exposure Controls and Personal Protection:		Special Fire Fighting Procedures: In case of fire, use self-contained breathing apparatus and full protective equipment - all fires liberate toxic gases.	
Respiratory Protection: None required	Physical and Chemical properties:		
Skin Protection: No precautions required	Vapor Pressure (mm Hg): N/A	Boiling Point: N/A	
Eye Protection: None required	Vapor Density (air = 1): N/A	Melting Point: N/A	
Exposure Guidelines: None established	Appearance and odor: N/A	Reactivity of water: N/A	
Engineering Controls: None required	Specific Gravity (H 0=1): N/A	Solubility in water: N/A	
Toxicological Information: Carcinogen Status: NTP: NONE IARC: NONE OSHA: NONE		Stability and Reactivity:	
Ecological Information: No Data Available		Stability: N/A	
Transport Information:		Conditions to avoid: Fire or Excessive Heat	
TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping.		Incompatibility: None	
Disposal Considerations: Waste Disposal: Dispose of in accordance with Local, State and Federal regulations.		Hazardous Decomposition Products: None	
Other Information:		Hazardous Polymerization: Will not occur.	
The information contained herein is based on the data available to the OEM, and is believed to be correct. However, Gerber Technology makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Gerber Technology and its distributors assume no responsibility for injury from the use of the product described herein.		Regulatory Information:	
		OSHA STANDARD CFR 29, PART 1910.1200: This product is considered to be an "article" under this standard.	
		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.	
		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 20% DEHP in the film and up to 0.1% Toluene in the adhesive.	