

PRODUCT CHARACTERISTIC SHEET

PLEASE READ BEFORE USING!

Material: CONVEX® 4 mil. Laminate

General Description: Clear soft flexible vinyl with a clear permanent acrylic adhesive. Used for over-laminating when conformability is necessary. Different combinations of Convex® base materials and Convex® laminate can be used to achieve a variety of decal thicknesses and selling prices.

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|----------------------------|-------------------------------------|---|
| Thickness: | 4 mil. vinyl with 1 mil of adhesive | Adhesive Properties: General purpose permanent acrylic pressure sensitive adhesive works on most surfaces. Not recommended for low energy plastics. |
| 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 | 66 | ASTM D 903 (Modified for 72 hour dwell time) | |
| Painted Polycarbonate | 45 | | |
| Polycarbonate | 52 | | |
| Glass | 63 | | |
| Stainless Steel | 53 | | |
| Polypropylene | 13 | | |
| Expected Shear Room Temp (hours) | 15 | ASTM D 3654 Method A | a. 1 hrl dwell b. 1 sq. in. surface c. 4 lb. load |
| Tack (gm/sq cm) | 240 | 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: CONVEX® 4 mil. Laminate | | Company: Gerber Technology | |
| Date Prepared: | | Address: 24 Industrial Park Rd. W Tolland, CT 06084-2806 | |
| General Description: Clear soft flexible vinyl with a 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: 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. | | * RoHS, EU Directives 2002/95/EC and 2003/11/EC and RoHS2, EU Directive 2011/65/EU | |
| First Aid Measures: Emergency and First Aid Procedures: ROUTES OF ENTRY: Inhalation: N/A Skin: N/A Eyes: N/A Ingestion: N/A | | Fire Fighting Measures: 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 | | 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 |
| 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 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 it's distributors assume 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 0.01% Toluene in the adhesive. | |