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PRODUCT CHARACTERISTIC SHEET and COC

PLEASE READ BEFORE USING!

Material: CONVEX® GearWrap™ Clear 4 mil.

Part Nos: C41550C, C41510C

General Description: Clear soft flexible vinyl with a clear permanent acrylic adhesive. Used for thermal resin transfer printing and can be used for over-laminating. Different combinations of 15" Convex® and 13" Convex® laminate can be used to achieve a variety of decal thicknesses and selling prices.

| Thickness: | 4 & 8 mil. vinyl with 1 mil of adhesive |
|----------------------------|---|
| 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 |

Adhesive Properties:

General purpose adhesive works on most surfaces. Gearwrap™ adhesive is formulated to remove cleanly from most surfaces for up to a year after it is applied.

Tests performed | results:

| Ulitmate Peel from | Average OZ/IN | Test Method ASTM D 903 (Modified for 72 hour dwell time) | | |
|-----------------------|---------------|---|----------------------|--|
| Acrylic | 66 | | | |
| Painted Polycarbonate | 45 | | | |
| Polycarbonate | 52 | | | |
| Glass | 53 | | | |
| Stainless Steel | 48 | | | |
| | | | | |
| Expected Shear | 15 | ASTM D 3654 Method A | a. 1 hrl dwell | |
| Room Temp (hours) | | | b. 1 sq. in. surface | |
| | | | c. 4 lb. load | |
| Tack (gm/sq cm) | 240 | ASTM D 2979 | | |
| | | | | |
| | | | | |

CERTIFICATE OF CONFORMANCE (COC)

| Sold to: | Lot No.: | | | | | |
|-----------|------------------------|--------|----------|-----------------------------|--------|--------------------|
| Buyer: | | PO# | | Supplier's Authorized Rep.: | | |
| Supplier: | Fraphic Marking System | MFR I | Part No: | Top of the page | Title: | Converting Manager |
| MFR Date: | | Ship [| Date: | | Date: | |

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.

GSP Software Settings:

In Gerber's Plot program, click on the "123" button then on the substitute button and select vinyl. Select 3M 220 Premium 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. GMS0612 Graphic Marking Systems

Material Safety Data Sheet (MSDS)

Material Name: CONVEX® GearWrap™ Clear 4 mil.

Part Nos: C41550C, C41510C

Date Prepared: 8/24/2015

General Description: Clear soft flexible vinyl with a clear permanent acrylic adhesive.

Company:

Graphic Marking Systems

28457 N. Ballard Rd., Suite A1 Address:

Lake Forest, IL 60045

REACH Compliant:

847-582-9276 Phone:

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

NO UL Recognized: ROHS Compliant: YES

YES

Hazards Identification:

POTENTIAL HEALTH EFFECTS:

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:

ROUTES OF ENTRY:

Inhalation: N/A N/A Skin: N/A N/A Eyes: Ingestion:

Accidental Release Measures: N/A

Handling and Storage:

No special handling required other than storing away from excessive

heat sources.

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:

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:

Respiratory Protection: None required

Skin Protection: No precautions required

Eye Protection: None required **Exposure Guidelines:** None established

Engineering Controls: None required

Physical and Chemical properties:

| 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:

IARC: NONE Carcinogen Status: NTP: NONE OSHA: NONE

Ecological Information: No Data Avaialble

Transport Information:

TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping.

Disposal Considerations:

Dispose of in accordance with Local, State and Federal regulations.

Stability and Reactivity:

N/A Stability:

Conditions to avoid: Fire or Excessive Heat

Incompatibility: None Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur.

Waste Disposal:

Regulatory Information:

OSHA STANDARD CFR 29, PART 1910.1200: This product is considered to be an "article" under this standard.

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.

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

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.