

PRODUCT CHARACTERISTIC SHEET and COC

PLEASE READ BEFORE USING!

Material: Motowrap™ Digital Print Vinyl

Part Nos: MW41550W, MW42050W, MW43050W, MW45450W, MW46050W

General Description: Gloss White soft and pliable UV stable vinyl with a clear permanent acrylic adhesive.
Print with Thermal Transfer, Eco Solvent, Latex, or UV Cured Ink Jets.

| | | |
|----------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thickness: | 3.5 mil. vinyl plus 2 mils of adhesive | Adhesive Properties: Crystal clear permanent acrylic pressure sensitive adhesive. Sticks aggressively to plastic surfaces, but is removable without residue for up to a year. |
| Outdoor Life: | 5 years | |
| Shelf Life: | 5 years stored at 70° F & 50%RH | |
| Service Temperature Range: | (-40° F to 200° F) | |
| Minimum Application Temp.: | 10° F | |

Tests performed | results:

| Ultimate Peel from | Average OZ/IN | Test Method |
|--------------------------------------------|---------------|--------------------------------------------------------------------------------|
| Stainless Steel | 160 | ASTM D 903 (Modified for 24 hour dwell time) |
| Powder coated paint | 130 | |
| Polyethylene | 115 | |
| Expected Shear Room Temp (hours) | 30 | ASTM D 3654 Method A a. 1 hr dwell b. 1 sq. in. surface c. 4 lb. load |
| Tack (gm/sq cm) | 900 | ASTM D 2979 |

| Reagent | Recommendation | Solvent Resistance: |
|---------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water | Recommended | The film is laminated to stainless steel panel and allowed to condition for 24 hours at room temperature before testing. The sample is then covered with reagent to the point that edges of product are also exposed to the reagent. The product is exposed to reagent for one hour at room temperature, then reagent is removed, and the product is immediately tested for scrape resistances, delaminating, and other visual effects. |
| 10% Saltwater | Recommended | |
| Bleach | Recommended | |
| Ammonia | Recommended | |
| Detergent | Recommended | |
| All Purpose Cleaner | Recommended | |
| Glass Cleaner | Recommended | |
| 99% IPA | Recommended | |
| Gasoline | Recommended | |
| Disinfectant | Recommended | |

Recommended Application Techniques:

If the plastic you are applying your label/decals to is new, it may have a silicone mold-release on the surface. You can remove it with alcohol before applying your decal. On curved surfaces, apply by rubbing from the center out.

Profile Settings:

Gerber Edge users should use the Permagrip Vinyl profile. Eco-Sol, Latex and UV ink jet users should choose a gloss white calendared vinyl profile.

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. GMS0725 Graphic Marking Systems

Material Safety Data Sheet (MSDS)

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Material Name: Motowrap™ Digital Print Vinyl | | Company: | |
| Part Nos: MW41550W, MW42050W, MW43050W, MW45450W, etc. | | Graphic Marking Systems | |
| Date Prepared: | | Address: 28457 N. Ballard Rd., Suite A1 Lake Forest, IL 60045 | |
| General Description: Gloss White soft and pliable UV stable vinyl with a clear permanent acrylic adhesive. Print with Thermal Transfer, Eco Sol, Latex, or UV Ink Jet. | | 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 | | 3TG Compliant: YES | Mil Spec MIL-DTL-43719 Type 1 Class 1 |
| | | 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. | | | |
| First Aid Measures: Emergency and First Aid Procedures: | | Fire Fighting Measures: | |
| ROUTES OF ENTRY: | | Flash Point: N/A | |
| Inhalation: N/A | Skin: N/A | Method Used: N/A | |
| Eyes: N/A | Ingestion: N/A | Auto-ignition Temperature: N/A | |
| Accidental Release Measures: N/A | | Flamable limits in Air % by Volume: LEL: N/A, UEL: N/A | |
| Handling and Storage: No special handling required other than storing away from excessive heat sources. | | Extinguishing Media: Multi-rated ABC extinguisher or water | |
| | | 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 | | Regulatory | |
| Skin Protection: No precautions required | | Ozone Depleting Substances | |
| Eye Protection: None required | | Does not contain | |
| Exposure Guidelines: None established | | US TSCA 12 (b) | |
| Engineering Controls: None required | | Compliant | |
| | | WEEE EU Directive 2002/96/EC | |
| | | Compliant | |
| | | Heavy Metals | |
| | | Does not contain | |
| | | Polybrominatedbiphenyls (PBB) | |
| | | Does not contain | |
| Toxicological Information: | | Polybrominated diphenyl esters (PBDE) | |
| Carcinogen Status: NTP: NONE IARC: NONE OSHA: NONE | | Does not contain | |
| | | Latex | |
| | | Does not contain/not tested | |
| Ecological Information: No Data Available | | Phthalates | |
| | | Contains, but below limits of Consumer Product Safety Improvement Act of 2008. | |
| Transport Information: | | Halogenated Compounds | |
| TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not a hazardous material for DOT shipping. | | Does not contain/not tested | |
| | | PFOS / PFOA | |
| | | Does not contain/not tested | |
| Disposal Considerations: Waste Disposal: Dispose of in accordance with Local, State and Federal regulations. | | 3TG, Gold, Tin, Tantalum, Tungsten | |
| | | Does not contain/not tested | |
| | | Dimethyl fumarate, Brominated flame | |
| | | Does not contain/not tested | |
| Disclaimer: 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. This product does not contain chemicals at levels that are subject to regulation or labeling under prop 65. | |