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PRODUCT CHARACTERISTIC SHEET and COC

PLEASE READ BEFORE USING!

Material: 3M 3690 Part Nos: 3M36901550W

General Description: White film with an aggressive permanent gray adhesive. This product can be used for exterior applications that encounter severe weather conditions along with an adhesive that adheres to sand cast and moderately rough, as well as low surface energy surfaces. The gray adhesive also provides opacity to cover over existing graphics Etc...

	Thickness:	2 mil. vinyl with 1.5 mil of adhesive	Adhesive Propertie
ı	Outdoor Life:	5 years	an aggressive permar
	Shelf Life:	2 years stored at 70° F & 50%RH	opacity to cover over
	Service Temperature Range:	(-65° F to 225° F) (-54°C to 107°C)	
	Minimum Application Temp.:	(-40° to 90°F) (-54° to +107°C)	1

ies.

anent gray adhesive. The gray adhesive also provides existing graphics

Tests performed | results:

Ulitmate Peel from	Average lb/in	Test Method			
Acrylic	5				
Aluminum	6				
Chrome	5				
Fiberglass	5				
Powder Coat Paint	3-6				
Expected Shear	5				
at 73°F					
Tack (gm/sq cm)	N/A				

CERTIFICATE OF CONFORMANCE (COC)

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

Recommended **Application Techniques:**

Use a dry application method. Do not use a detergent and water or a commercial application liquid to position the graphic. Removal: This film is not removable. A solvent-based remover system maybe needed.

GSP Software Settings:

For the best printing results from the Gerber EDGE®, select the settings for "Security label stock" or LexEdge®II. Cutter settings should be determined by performing test cuts.

More information and specifications can be obtained by visiting 3M on the web at: www.3M.com.

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: 3M 3690 Company:

Part Nos: 3M36901550W

Date Prepared: 4/12/2013

General Description: White film with an aggressive permanent gray adhesive.

Graphic Marking Systems

Address: 28457 N. Ballard Rd., Suite A1

Lake Forest, IL 60045

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

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:

ROUTES OF ENTRY:

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

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: None

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:

Hazardous Decomposition Products:

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

Ecological Information: No Data Avaiable

Transport Information:

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

Disposal Considerations: Waste Disposal:

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

Regulatory Information:

Hazardous Polymerization:

Stability and Reactivity:

Conditions to avoid:

Incompatibility:

Stability:

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

N/A

None

None

Will not occur.

Fire or Excessive Heat

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 data.

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.