

PRODUCT CHARACTERISTIC SHEET and COC

PLEASE READ BEFORE USING!

Material: REFLECTAC™ Reflective Film

Part Nos: RTCEG1550W, RTCEG1550Y

General Description: White Engineering Grade reflective sheeting, with a 7 year outdoor durable rating, and coated with a permanent pressure sensitive solvent based adhesive on a paper liner. Main uses include signs, warning labels and asset tags. Conforms to standards such as ASTM D-4956, and European EN 12899-1. Reflectac can be printed with most thermal transfer, and solvent ink jet printing devices.

Thickness:	5 mil. vinyl with 1 mil. of adhesive.	Adhesive Properties: Aggressive, high performance, permanent solvent-based acrylic pressure sensitive adhesive works on most surfaces.
Outdoor Life:	7 years	
Shelf Life:	1 years stored at 70° F & 50%RH	
Service Temperature Range:	(-22° F to 176° F)	
Minimum Application Temp.:	60° F	

Tests performed | results:

Property	Results	Test Method
Average Gloss	87 at 60°	Gloss meter
Shrinkage	0.52mm/MD, 0.30mm/TD after	Sheet size: 225mm X 225mm Condition: 23°C (74°F), 60% RH
Adhesion	% 100 70 minutes (≤.020) (≥.021)	90° peeling with 800g weight for 5 min.
Tensile Strength	8 Ft - lb / in of notch 1/8"	Instron Tester
Elongation at break	158 +/-3°	Instron Tester
Solven resistance afterapplied on the treated aluminum plate	No evidence dissolving, puckering	Toluene 1 min. Methanol 1 min.
Minimum Application Temp.:	15°C (59°F)	Flat and smooth surface
Maximum Application Temp.:	25°C (77°F)	Corrugated surface.

CERTIFICATE OF CONFORMANCE (COC)

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

Recommended Application Techniques:

Clean the application surface immediately before applying Reflectac. Use a mild solvent or detergent to remove dirt, oil, etc. Apply when the ambient temperature is between 60°F and 77°F, 15°C and 25°C.

GSP Software Settings:

Use the print settings you would normally use for 280i reflective material or 220 metallic. For faster throughput, use the 2 mil label stock setting at 300 x 300. Duracoat users should use 280i settings. Due to cutting blade sharpness, please perform test cuts to determine the correct settings. A 45° blade should work well.

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: REFLECTAC™ Reflective Film

Part Nos: RTCEG1550W, RTCEG1550Y

Date Prepared:

General Description: White Engineering Grade reflective sheeting, with a 7 year outdoor durable rating, and coated with a permanent pressure sensitive solvent based adhesive on a paper liner.

Company:

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 CFR 1910.1200): NONE

UL Recognized:

NO

ROHS Compliant:

N/A

REACH Compliant:

N/A

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.

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

Toxicological Information:

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

Ecological Information: No Data Available

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.

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.

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.

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

Stability and Reactivity:

Stability: N/A

Conditions to avoid: Fire or Excessive Heat

Incompatibility: None

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur.

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. This product does not, to the best of our knowledge and belief contain any of the chemicals on the current list of chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.