

This retro-reflective sheeting is a product manufactured for use as fleet markings, vehicle markings, stickers, decals, etc. which can be screened with multi-colored inks that will adhere very well to this sheeting. Coated with a pressure sensitive adhesive protected with an easily removable liner, this sheeting is easy to handle because of its great flexibility and is capable of giving high retroreflectivity.

Best results are obtained when applied to flat surfaces, but it can be applied successfully to corrugated surfaces. It is also used on commercial signs and various labels and highly resistant against the extremes of hot, cold, dry, and humid weathering conditions.

Material Safety Data Sheets

HMIS Codes

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient name</u>	<u>Percentage</u>	<u>CAS number</u>	<u>EINECS number</u>
Polyester resin	3 ~ 8	--	--
Polyurethane resin	2 ~ 4.5	--	--
Acrylic resin	10 ~ 16	--	--
Curing agent	2 ~ 3	--	--
Glass bead	20 ~ 30	--	--
Aluminum	< 1	7429-90-5	231-072-3
Acrylic resin (adhesive layer)	8 ~ 14	--	--
Liner Paper	35 ~ 45	--	--

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Colour	White
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HAZARDS IDENTIFICATION

Critical hazards: Flammable

FIRST AID MEASURES

Not applicable

FIRE-FIGHTING MEASURES

Suitable Extinguishing Media :

Carbon dioxide. Dry chemical. Foam. Water spray.

Fire Fighting Equipment:

Wear full protective clothing, including helmet and face mask, self-contained, positive pressure or pressure demand breathing apparatus.

ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition and prepare the digestive organs.

HANDLING AND STORAGE

Precautions for Safety Storage: Store in a cool place and keep dry. Store away from heat and direct sunshine.

Precautions for Safety Handling: Handle under the normal usage

EXPOSURE CONTROLS / PERSONAL PROTECTION

No special matters.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance and

Sheeting

Odor :

pH : Not applicable

Boiling point : Not applicable

Melting point : Not determined

Flash point : Not determined

Ignition point : Not determined

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Vapor pressure : Not applicable

Water Solubility : Insoluble

Specific gravity : 1.2 ~ 1.5

Vapor density : Not applicable

Evaporation rate : Not applicable

Viscosity : Not applicable

STABILITY AND REACTION

Stability : Stable under the normal conditions.

Hazardous Polymerization : Not occur

TOXICOLOGICAL INFORMATION

No special data are available.

ECOLOGICAL INFORMATION

No specific data are available.

Since regulations vary, consult applicable regulations or authorities before disposal.

DISPOSAL CONSIDERATIONS

Any disposal materials must be in compliance with local, state and federal laws and regulations.

TRANSPORTATION INFORMATION

Any carton boxes must be confirmed damage.

Those boxes must be loaded up with no damage, no fall, no drop.

REGULATORY INFORMATION

No special matters.

OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

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DRYING

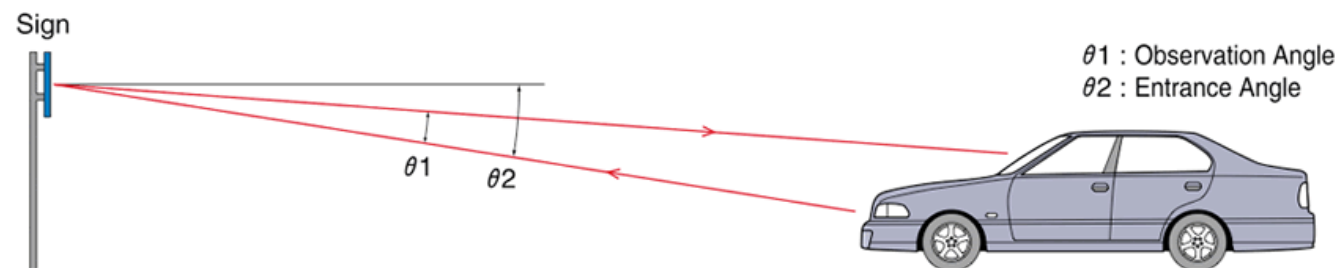
The drying space or room should always be kept clean and free from dust. Drying can be accomplished with natural drying, air blast drying or heat-oven drying. When natural drying, allow good ventilation through the drying racks. For air blast drying, set the fans at 1.5 to 2 meters apart from the drying racks and let it blow slightly downward towards all the surfaces of the screened sheets. When using a heat-oven dryer, we recommend an oven dryer with controls for temperature, velocity and volume of wind for both inhale and exhale, and drying temperature is up to 70°C (158°F). After heat-oven drying, printed sheets must be cooled to room temperature before stacking to prevent blocking due to post heating. Before stack printed sheets after drying, confirm dryness by placing two printed faces, face to face, and press firmly together by hand and place near your ear and then begin to pull them apart. If no sound is heard then they are dry enough for stacking up to 50 pieces high. It is recommended that each printed sheet be provided with a slip sheet on the printed side.

SUBSTRATE TREATMENT

The retro-reflective sheeting is provided with a strong pressure-sensitive adhesive with good durability and it can be laminated on a flat substrate and corrugated surface. When laminating on coated steel or plastic substrates, particularly on new type of substrates, confirm there is no trouble in adhesion, peel-off, swelling, discoloration and reflectivity degradation of sheeting, before starting mass production. Although the adhesion of any substrate material can be expected to be improved by wiping with solvents or sanding, confirm it by testing in advance.

Flexible Engineering Grade Reflectivity Performance

The values shown below are average typical values determined by our own measurement method using the entrance angle and with the arrow marks of the CW types indicating the directions parallel to the observation angle.



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COLOR	OBSERVATION ANGLE/ENTRANCE					LUMINANCE FACTOR (β)
	ANGLE					
	12'/5°	12'/30°	20'/5°	0.5°/5°	2.0°/5°	
White	121.0	48.0	92.0	49.0	10.0	0.4

Flexible Engineering Grade

APPLICATION PROCESS

The retro-reflective sheeting often is applied to vehicles outdoors; special care must be taken to clean the application surface immediately prior to application of the sheeting. Use neutral detergent solution or mild solvents to remove oil, stain and other similar types of petroleum-based contaminants. This ELG sheeting can be applied successfully to the substrate, if the ambient temperature is between 15°C to 25°C (59°F to 77°F).

A. APPLICATION TO FLAT SURFACES

The retro-reflective sheeting can be applied using a hand roller in the case of small signs, cutout letters, and legends, and can be applied on substrates through the use of a hand or motor-driven roller applicator. If air bubbles form under the sheeting, puncture the sheeting with a pin and squeeze out the air through the perforations.

B. APPLICATION TO IRREGULAR SURFACES

The application of the sheeting to bodies of vehicles often requires application to a combination of flat, corrugated and riveted surfaces. In such cases the following steps are recommended:

- When applying ELG sheeting on the irregular surface, first, apply application tape on the ELG sheeting entirely.
- Position the entire sheet of ELG over the application surface without removing the protective liner and holding it in place with pre-masking tapes.
- After satisfactory positioning, hold the sheeting in place with pre-masking along the edge of the sheeting only. Then peel off the protective liner little by little,

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pressing the sheeting against the vehicle body with a hand squeegee or a stiff-haired brush as the adhesive becomes exposed.

- After the entire sheet has been applied, remove the pre-mask and application tape along the sheeting surface at a 180° angle and squeegee the sheeting again. Squeegee out the air trapped under the sheeting through pin-hole perforations, especially around the heads of the rivets. A stiff-haired brush placed over the rivet heads and stroked with circular motions will facilitate this task. As necessary, a heat-gun should be used to warm the sheeting in such areas to give the sheeting greater flexibility, stretching, and adhesion.

Available Sizes:

Finished Rolls
48" X 150'

Core
2"

Print Side
PSO