



FLEXIBLE ENGINEER GRADE REFLECTIVE

PRODUCT OVERVIEW

Flexible Engineering Grade (RVG) retro-reflective sheeting is a product manufactured for use as fleet markings, vehicle markings, stickers, decals, etc. Coated with a pressure sensitive adhesive and protected with an easily removable liner, this sheeting is easy to handle because of its great flexibility and is capable of giving high retro-reflectivity.

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.

TECHNICAL DATA

PROPERTIES	TEST METHOD	RESULTS
Average Thickness (without liner)	Micrometer	158 μ m
Average Gloss	Gloss-meter	87 at 60°
Shrinkage	Sheet size: 225mm X 225mm Condition: 23°C (74°F), 60% RH	0.52mm/MD, 0.30mm/TD after 10 min 0.24mm/MD, 0.12mm/TD after 24 hrs.
Adhesion*	90° peeling with 800g weight for 5 min.	Aluminum: 0.2mm Overlap: 19.2mm
Tensile strength	Instron Tester	26.4 N/25mm width
Elongation at break	Instron Tester	169%
Solvent resistance after applied on the treated aluminum plate	Toluene 1 min. Methanol 1 min.	No evidence dissolving, puckering, blistering
Minimum application temperature	Flat and smooth surface	15°C (59°F)
Maximum application temperature	Corrugated surface	25°C (77°F)
Service temperature range	After applied on the treated aluminum	-30° to 80° (-22°F to 176°F)

DURABILITY

RVG series retro-reflective sheeting processed and applied properly, shall have a performance life of 7 years when exposed vertically. The RVG retro-reflective sheeting shall be considered as performing satisfactorily if the sign has not deteriorated, due to natural causes, to the extent that the sign is ineffective for its intended purpose when viewed from the vehicle.

APPLICATION PROCESS

DUE TO THE WIDE VARIETY OF APPLICATIONS, WE RECOMMEND THAT ONLY PROFESSIONALS WITH EXPERIENCE IN FLEET OR VEHICLE GRAPHICS INSTALL THIS PRODUCT. ONCE INSTALLED IT BECOMES VERY DIFFICULT TO REMOVE OR CHANGE AND MAY CAUSE DAMAGE TO THE SURFACE APPLIED TO. WE ARE NOT LIABLE FOR ANY DAMAGES RESULTING FROM THE USE OF THIS PRODUCT.

Since RVG series 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 RVG sheeting can be applied successfully to the substrate, if the ambient temperature is between 15°C to 25°C (59°F to 77°F).

CLEANING During its lifetime the RVG marking may require cleaning at some stage. The RVG marking will probably have sand/grit stuck on the surface, therefore it is recommended that a low-pressure flow of water is used to help remove this loose dirt and sand/grit from the RVG marking first. Never use a strong jet of water. Rubbing the sand/grit into the RVG marking during the cleaning procedure may cause irreparable damage to the sheeting. Therefore, care must be taken during the cleaning process. A small solution of a mild detergent in clean warm water is recommended for cleaning the material surface. The detergent and cloth must be non-abrasive, free of any strong aromatic solvents or alcohol's and is chemically neutral. Rinse the whole area thoroughly after washing and allow drying naturally or using a lint free cloth

DISCLAIMER This is data based on typical results achieved. It is the sole responsibility of the buyer to ensure that the product is suitable for any proposed end use or application. This data in no way constitutes a specification, nor should it be seen as a recommendation for use. We accept no liability for any loss, damage or injury resulting from the use of these products or data.