



# NL700 Engineering Grade Reflective Vinyl

## Product Information

NL700 Engineering Grade Reflective Vinyl meets with ASTM D 4956 Type I standards. It is an enclosed lens, glass-bead reflective, pressure sensitive adhesive-coated vinyl with an easy release liner.

NL700 Engineering Grade Reflective Vinyl delivers strong reflection performance, a smooth surface, flexibility, repositionable adhesive and colored light reflection.

It is screen print suitable and offers easy computer-cutting operation.

NL700 Engineering Grade Reflective Vinyl is particularly suitable for all long-term reflective signage and vehicle markings on flat and mild-curved surfaces.

## Colors Available

White, Yellow

## Shelf Life

12 months when stored in the original packaging between 20°C and 25°C at 45% relative humidity.

## Technical Data

Surface film acrylic type:	glass bead
Thickness, total:	0.32mm
Thickness, reflective layer:	0.15mm
Adhesive:	pressure-sensitive, clear, permanent
Adhesion:	4,7 N/cm +/- 5%
Liner:	PE-coated silicone paper
Application temperature:	18°C to 28°C
Service temperature:	-70°C to 70°C
Outdoor durability:	7 years

## Standard Dimensions

1220mm X 45.7M

observation angle	input angle	coefficient of retroreflection	
		white	yellow
0.2°	-4°	89	56
	15°	82	50
	33°	34	24
0.2°	-4°	65	43
	15°	63	39
	33°	30	21
0.2°	-4°	21	16
	15°	22	12
	33°	19	9.7

Reflectivity conforms to ASTM D 4956.

Observation Angle: The angle between the illumination axis and the observation axis.

Input Angle: The angle from the illumination axis to the retroreflector axis. The retroreflector axis is an axis perpendicular to the retroreflective surface.

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### Fabrication

NL700 should be fabricated at 18°C or higher, if the sheeting temperature is less than 18°C, allow it to condition at 18°C to 24°C for at least 24 hours prior to use.

Best application will be achieved by using a motorized or hand operated squeeze roll applicator.

To obtain maximum initial adhesion if applying via hand application, use firm pressure with 5cm rubber roller or plastic squeegee.

### Cutting

The sheeting may be hand cut, band sawn, guillotined, cold or hot die-cut and electronically cut.

### Electronic Cutting Machines

There should be enough down force on the knife blade to slightly score the liner. The knife blade should be sharp and clean.

Letters and characters should be a minimum height of 8cm with a minimum stroke width of 1cm. Users are encouraged to evaluate cutting procedures for their own equipment and shop conditions.

### Cleaning

To clean, signs should be flushed with water, then washed with a mild detergent and bristle brush or sponge. Avoid excessive pressure that may damage the surface. Rinse with water after washing. Do not use solvents to clean signs.

### Storage and Shelf Life

Sheeting should be stored flat, in a cool, dry area, preferably at 18°C to 24°C and approximately 45% relative humidity and should be applied within one year of purchase.

Rolls should be stored horizontally in the original packaging. Unused portions should be returned to the original packaging or suspended horizontally from a rod or pipe through the core.

Unprinted material may be stored for a period of up to one year. Printed items may be stored for up to an additional six months. Material must be stored in a clean area, free from excessive moisture and direct sunlight, with ambient temperatures of 29°C or less.

### General Performance Considerations

The performance and durability of NL700 Engineering Grade Reflective Vinyl is dependant on a number of variables including (but not limited to) substrate selection, preparation, application and installation procedures; geographic, climatic and atmospheric conditions and maintenance and age.

NL700 Engineering Grade Reflective Vinyl can be expected to provide satisfactory performance for 5-7 years depending on the above variables.

Maximum durability can be expected in applications on stationary objects which subject to vertical exposure and when processed and applied to prepared aluminum according to recommendations.

Applications to unprimed, excessively rough or non-weather-resistant surfaces, or exposure to severe or unusual conditions can shorten the performance of such applications.

Signage applications that are experience extended periods of snow coverage may also have reduced durability.

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