

**Avery Dennison® LW-1000 Reflective Film
For Window Stickers
Revised: 10/2003**

Description:

Avery Dennison® LW-1000 Reflective Printable Urethane film is an economical, enclosed lens, retroreflective construction. This product has been designed for applications to the inside on windows for validation and information stickers with the use of a clear transfer adhesive.

Construction:

Protective Film:	PET
Face Film:	High Gloss Retroreflective Urethane
Back Surface:	Exposed metalized layer

Transfer Adhesive for Face:	STD 1122HX
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Physical Properties:

The following information on physical and chemical characteristics is based upon tests believed to be reliable. The values are intended only as a source of information. They are given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of this material for his/her specific purpose. (Data represents averages and is not intended for use as a specification).

Outdoor Durability:	5 years when properly processed, and applied (vertical exposure, inside of window)
Minimum Surface/Ambient Air Application Temperature:	NA (minimum temperature of the transfer adhesive used)
Application Surface:	Flat surfaces only
Service Temperature Range:	-40° to 180° F (-40° C to 82° C) (Reasonable range of temperatures which would be expected under normal environment and temperature conditions).
Optical Properties:	<u>Reflective Intensity:</u> Meets or exceeds L-S 300C, Table II Reflectivity 1, Class 5.
Shelf Life:	One year when stored at the following temperatures and humidity conditions 68°-77° F (20° - 25° C) and 50±5% R. H.

Photometric Performance:

Color	Minimum Reflectivity Level*
White	70
Yellow	50

*CPL at 0.2° observation angle and -4° entrance angle

Colors & Specification Limits (Daytime):

Color	1		2		3		4		Luminance (Y%)	
	x	y	x	y	x	y	x	y	Min	Max
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	35	--
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	27	45

The four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System measured with Standard Illuminant D65 (geometry 45/0°).

Printing Methods:

Screen:	Yes, Reference Instructional Bulletin 3.00
Offset:	Yes

Typical Converting Methods:

Thermal Die Cutting:	Yes
Guillotine Cutting	Yes, Reference Instructional Bulletin 8.20
Steel Rule Die-Cutting	Yes,

Additional Information:

Converting	Protective Film must be removed from face film prior to printing or any other converting steps.
Standard Colors	White and Yellow. Custom Colors available upon request, contact your Avery Representative for minimum order quantities

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LW-1000 is protected by the following US Patent: 6,350,036