

**NIGHT VISIBLE NV-1500 Series 7-yr. Premium Reflective Vinyl**  
**Features a StaFlat<sup>1</sup> Liner for Screen Printing Applications**  
**And Place Rite® Positionable Adhesive**  
**Issued: 04/18/05**

**Description:**

Avery Dennison® Night Visible NV-1500 Series features a 90# Imprinted StaFlat Liner for Screen Printing Applications and Place Rite® Positionable Adhesive. The Avery Dennison NV-1500 Premium Reflective Vinyl is enclosed lens, retroreflective film that offers exceptional value for architectural, transportation, and general signage applications requiring conformability and extended durability. Place Rite® adhesive combines initial positionability with high ultimate bond.

**Construction:**

<b>Face Film</b>	High Gloss, Premium, Retroreflective Vinyl Film
<b>Adhesive</b>	Place Rite® Positionable, Pressure-sensitive, Clear Acrylic
<b>Release Liner</b>	90# Imprinted StaFlat <sup>1</sup>
<b>Standard Colors</b>	White, Yellow, Red, Gold, Orange, Blue, Black, Green, Dark Red, New Gold, Light Blue

**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.)

<b>Outdoor Durability</b>	7 years when properly processed and applied (vertical exposure, unprinted film)
<b>Minimum Surface/Ambient Air Application Temperature</b>	50° F (10° C)
<b>Application Surface</b>	Flat and simple curves. Not recommended for unpainted stainless steel applications. NOTE: Wet method of application not recommended on NV-1500 Series reflective film. Lamination of NV-1500 over any NV product is not recommended. Use of wet method of application or application of an NV product over another NV product invalidates standard warranty.
<b>Typical Applications</b>	Trucks and Buses, Auto, RV, Marine, Architectural, Promotional
<b>Service Temperature Range</b>	-40° to 180° F (-40° to 82° C) Reasonable range of temperatures that would be expected under normal environmental time and temperature conditions.
<b>Typical Film Caliper w/Adhesive</b>	7.0 ± 0.5 mils (178 + 13 µm)

<sup>1</sup> White and yellow only; all other colors are on 90# High Release Imprinted Liner

# PRODUCT DATA BULLETIN

<b>Typical Coefficient of Retroreflection</b>	White 70 Yellow 50 Red 14 Gold 50 Orange 25 Blue 4	Black 4 Green 9 Dark Red 10 New Gold 50 Light Blue 4  (Tested per ASTM E810 at -4° EA/0.2° OA)
<b>Typical Adhesion Values:</b>	<b>180° Peel</b>	
	<b>Substrate</b>	<b>15 min</b>
	<b>24 hr</b>	
	Anodized Aluminum	3.3 lbs/in
	OEM Automotive Paint	4.9 lbs/in
		3.8 lbs/in
		5.2 lb/in
	NOTE: Tested per ASTM D1000. Always pre-test your specific substrate prior to actual application.	
<b>Shelf Life</b>	One year when stored at the following temperatures and humidity conditions 68°-77° F (20° - 25° C) and 50±5% R. H.	
<b>Dimensional Stability</b>	Less than 0.03 in. (0.76mm) 1000 hours Atlas Twin Arc Weatherometer, EH	

### Typical Converting Methods:

<b>Screen</b>	Reference Instructional Bulletins 3.00 and 3.30
<b>Thermal Die Cutting</b>	Reference Instructional Bulletin 8.20. 270° F to 300° F (132° C to 149° C) for 0.5-2.0 seconds Cutting temperatures and dwell times will vary with differences in die configuration and individual machines. Always test prior to production.
<b>Guillotine Cutting</b>	Reference Instructional Bulletin 8.20
<b>Steel Rule Die-Cutting</b>	Reference Instructional Bulletin 8.20
<b>Sign Cutting</b>	Not recommended

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