

NIGHT VISIBLE NV-1300 Series 7-yr. Premium Reflective Vinyl
Features a StaFlat¹ Liner for Screen Printing
Applications and Permanent Adhesive
Revised: 04/18/05

Description:

Avery Dennison® Night Visible NV-1300 Series features a 90# Imprinted StaFlat Liner for Screen Printing Applications and Permanent Adhesive. The Avery Dennison NV-1300 Premium Reflective Vinyl is enclosed lens, retroreflective film that offers exceptional value for architectural, transportation, and general signage applications requiring conformability and extended durability.

Construction:

Face Film	High Gloss, Premium, Retroreflective Vinyl Film
Adhesive	Permanent, Pressure-sensitive, Clear Acrylic
Release Liner	90# Imprinted StaFlat ¹
Standard Colors	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.)

Outdoor Durability	7 years when properly processed and applied (vertical exposure, unprinted film)
Minimum Surface/Ambient Air Application Temperature	50° F (10° C)
Application Surface	Flat, complex and simple curves, flat with rivets, and corrugations with rivets. Not recommended for unpainted stainless steel applications. NOTE: Wet method of application not recommended on NV-1300 Series reflective film. Lamination of NV-1300 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.
Typical Applications	Trucks and Buses, Auto, RV, Marine, Architectural, Promotional
Service Temperature Range	-40° to 180° F (-40° to 82° C) Reasonable range of temperatures that would be expected under normal environmental time and temperature conditions.
Typical Film Caliper w/Adhesive	7.0 ± 0.5 mils (178 + 13 µm)

¹ White and yellow only; all other colors are on 90# High Release Liner



PRODUCT DATA BULLETIN

Typical Coefficient of Retroreflection	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)
Typical Adhesion Values:	180° Peel	
	Substrate	15 min
	24 hr	
	Anodized Aluminum	3.3 lbs/in
	OEM Automotive Paint	5.3 lbs/in
		3.8 lbs/in
		5.2 lbs/in
	NOTE: Tested per ASTM D1000. Always pre-test your specific substrate prior to actual application.	
Shelf Life	One year when stored at the following temperatures and humidity conditions 68°-77° F (20° - 25° C) and 50±5% R. H.	
Dimensional Stability	Less than 0.03 in. (0.76mm) 1000 hours Atlas Twin Arc Weatherometer, EH	

Typical Converting Methods:

Screen	Reference Instructional Bulletins 3.00 and 3.30
Thermal Die Cutting	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.
Guillotine Cutting	Reference Instructional Bulletin 8.20
Steel Rule Die-Cutting	Reference Instructional Bulletin 8.20
Sign Cutting	Not recommended

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