

# Avery Dennison® HV1200SS High Visibility Series

Permanent or Removable Staflat™

(formerly: NV1300SS series StaFlat™ )

Revision: 2 Dated: 04/06/17

## Uses:

Avery Dennison® HV1200SS Reflective high performance vinyl films are premium quality, enclosed lens, retro-reflective films which meet or exceed the applicable requirements ASTM® D-4956 for reflectivity. Specifically designed for screen printing as well as use on computer sign cutting equipment, Avery Dennison® HV 1200SS Reflective films provide excellent cutting, weeding, transferring, and conforming characteristics. The HV1200SS is suitable for use on stainless steel and rail applications



**Face:** 9.3 ± 0.5 mils (236 ± 13 microns) high gloss cast film



**Adhesive:** Permanent or Removable Clear Acrylic



**Liner:** 90# StaFlat™



**Durability:** Up to 7 years Vertical exposure ONLY

**Application Surfaces:**

Flat, Simple Curves

## Features:

- Suitable for use on stainless steel
- Long-Term durability and outdoor performance
- Dimensionally stable liner for easy converting
- High gloss finish
- Excellent conversion on CAD plotters
- Screen Printable
- Easy cutting & weeding
- Good dimensional stability
- Good UV, temperature, humidity, and salt-spray resistance
- Meets ASTM® D4956, Type I (see approved colors below)

## Conversion:

- Thermal Die-Cutting
- Flat Bed Sign-Cut
- Drum Roller Sign-Cut
- Steel Rule Die-Cutting
- Thermal Transfer
- Screen Printing

## Common Applications: (vertical only)

- Fleet
- Vehicle
- Railroad Cars
- Bus Graphics
- Indoor Signage
- Outdoor Signage
- Striping

Use of liquid clear coats (UV, solvent) or protective laminates may extend the performance of reflective films in non-vertical applications, but does not change the warranty of the product.

## Product Data Sheet

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Graphics  
Solutions

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## Physical Characteristics:

Property		Value
Caliper, face		8± 0.5 mils (203± 13 microns)
Caliper, adhesive		1.3 mil (32 µm)
Dimensional stability		Less than 0.03 in. (0.76 mm) shrinkage. (1000 hours Atlas Twin Arc Weatherometer, EH)
Tensile at Yield		4.0 -8.0 lb/in (0.7 – 1.5 kg/cm)
Elongation		70% min.
Gloss		90% ± 10
Adhesion:		
15 min.	Permanent	3.0 lbs/in (525 N/m)
	Removable	2.5 lbs/in (438 N/m)
24 hr.	Permanent	3.5 lbs/in (770 N/m)
	Removable	3.0 lb/in (525 N/m)
Flammability		Self Extinguishing
Shelf-Life		2 years from date on label (up to 2 years unprocessed, OR process within one year and apply within 1 year of processing)
Durability	Vertical Exposure Only	Up to 7 years (Some color fade may occur in severe environmental areas. Reference IB #1.30 for durability guidelines.
Min. Application Temperature		50° F (10° C) for flat surfaces 55° F(13° C) for flat with rivets, rivets, corrugations, curved surfaces.
Service Temperature		-40° to +180 °F(-40° to +82°C) (Reasonable range of temperatures which would be expected under normal environmental conditions, with intermittent exposure to temps over 150° F(65°C)
Chemical resistance		Resistant to most mild acids, alkalis, and salt solutions.

Data represents average values where applicable, and is not intended for specification purposes.

### Warranty:

This Warranty applies to the Product listed in this Data Sheet. All statements, technical information (including physical and chemical characteristics) and recommendations about Avery Dennison products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold subject to the Purchaser's assent and agreement that Purchaser is responsible for, and has independently determined, the suitability of such products for its purposes or its customer's purposes. Avery Dennison graphics products are warranted to be free from defects in material and workmanship for two years from the date of manufacture. When the product is properly applied, the warranty period is as stated in the product's specific Product Data Sheet in effect at the time of shipment to Avery Dennison's customer.

Such time periods are subject in either case to the proper storing and application of said product, and the failure to properly store or apply the product, including without limitation the failure to follow any applicable Instructional Bulletin, negates any warranty. It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited exclusively to: (a) repair or replacement of defective product without charge at Avery Dennison's plant or at the location of the product (at Avery Dennison's election), or (b) in the event repair or replacement are not commercially practical, a credit amount up to the price of the product taking into account the defect in the product in Avery Dennison's sole discretion.

THE WARRANTY EXPRESSLY SET FORTH ABOVE IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR USE AND/OR NON-INFRINGEMENT. SELLER SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER SUCH WARRANTIES. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

AVERY DENNISON'S LIABILITY FOR DEFECTIVE PRODUCTS SHALL NOT EXCEED THE PURCHASE PRICE PAID THEREFORE BY PURCHASER AND IN NO EVENT SHALL AVERY DENNISON BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHETHER FORESEEABLE OR NOT, CAUSED BY DEFECTS IN SUCH PRODUCT, WHETHER SUCH DAMAGE OCCURS OR IS DISCOVERED BEFORE OR AFTER REPLACEMENT OR CREDIT, AND WHETHER OR NOT SUCH DAMAGE IS CAUSED BY AVERY DENNISON'S NEGLIGENCE.

All sales and contracts for sale of Products are subject to Purchaser's assent and agreement to this Warranty. Avery Dennison hereby objects to any terms or conditions contained in any purchase order or other communication of any kind from the Purchaser that is conflicting, inconsistent or additional to this Agreement.

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## Related Documents:

The following Avery Dennison literature will provide complete information to the user for proper application, storage, and other requirements and is available upon request from your Avery Dennison representative or from the Avery Dennison website ([www.na.averygraphics.com](http://www.na.averygraphics.com)).

Document Title	NUMBER
Substrate Cleaning and Preparation	IB 1.10
Storage, Maintenance and Cleaning of PVC Films	IB 1.20
Durability of Films	IB 1.30
Converting Tips for Sign Films	IB 2.10
Ink recommendations for Cast, Reflective, Calendered, and Specialty Products	IB 3.00
Sericol TMI II Screen Inks: Metallics	IB 3.20
Sericol TMI II Screen Inks: Four Color Process	IB 3.21
Sericol TMI Screen Inks: Opaques, Transluents, and Transparents	IB 3.22
Sericol UTMI II Overprint Clear Coat	IB 3.23
Sericol TMI II 1000 Overprint Clear Coat	IB 3.24
Nazdar 3500 UV Fleet	IB 3.30
Application Instructions for Avery Dennison Films	IB 4.00
Removal Instructions for Avery Cast, Calendered, Reflective, and Polyester Films	IB 4.10
Thermal Transfer Printing, Converting, Operating, and Product Instructions	IB 5.10
Tips for Overlaminating, Premasking & Packaging Graphics	IB 5.50
Reflective Films on Stainless Steel	IB 6.11

Revisions are italicized

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