

# PRODUCT DATA SHEET



## Avery® HV 1302 REV Series

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### Introduction

Avery® High Visibility 1302 REV series is a metalized prismatic, **R**etroreflective **E**mergency **V**ehicle (REV) film designed to provide an extra high level of visibility for emergency vehicles, fleet graphics, traffic delineators, photoelectric controls, decals and general markings at wider entrance angles.

### Description

Facefilm: High gloss, cast retroreflective film  
Adhesive: Permanent, pressure sensitive, clear acrylic  
Backing paper: Polymeric film

### Features

- Type 1 reflectivity levels
- Excellent omni-directional performance
- Ease of application due to freedom of direction.
- Excellent cutting, weeding and transferring characteristics
- Very good printing results on screen presses
- High gloss cast vinyl for flat to simple curved surfaces
- High dimensional stability

### Typical Reflectivity Values

Standard Colours		White	Red	Blue
Reference		HV 1302 100	HV 1302 400	HV 1302 600
Entrance Angle	Observation Angle			
-4°	0.1°	2000	350	160
-4°	0.2°	900	670	72
-4°	0.5°	230	40	18.4
30°	0.1°	1100	180	88
30°	0.2°	600	100	48
30°	0.5°	120	20	9.6

Tested according to ASTM E810

### Conversion

Excellent sign cutting properties on roll plotters as well as on flat bed plotters. See I.B. 2.10 and 8.25 for further instructions. Use a 60° blade and depending on the cutting device double cutting may be required.

### Application

Application on flat surfaces and simple curves with or without rivets<sup>1</sup>. A typical application substrate is the OEM vehicle paint finishes. Not recommended for unpainted stainless steel. Wet method application is not recommended. The use of wet application invalidates the standard warranty.

<sup>1</sup> It is recommended to cut out rivets



www.averygraphics.com

Graphics Division

Rijndijk 86, P.O. Box 118  
2394 ZG Hazerswoude – The Netherlands  
Tel +31 71 3421500 – Fax +31 71 3421538

## Physical and Chemical Properties

### Physical properties

Features	Test method <sup>1</sup>	Results
Caliper, facefilm		228 µm
Caliper, adhesive		76 µm
Flammability		self extinguishing
Dimensional stability	ASTM D-4956	complies.
Shelf life	Stored at 23 °C/50% RH	1 year
Outdoor Durability <sup>2</sup>	Vertical exposure	5 years

### Temperature range

Features	Results
Application temperature	Minimum: +13 °C
Service temperature	-12 ° to +60 ° C

### Chemical Properties

#### Solvent resistance

Resistant to most mild acids, alkalis and salt solutions

#### Colour consistency

Due to the nature of retroreflective material, graphics comprised of multiple pieces of film may give the perception of a colour shift depending on the viewing angle and light source. This is not considered a defect in the material. To minimise this effect, cut letters or stripes from one continuous piece of material or use materials from adjacent portions of the roll.

#### Important

Information on product characteristics and physical and chemical properties is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use. All technical data are subject to change.

#### Warranty

Avery® branded materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give any guarantee, warranty, or make any representation contrary to the foregoing. All Avery® branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

#### 1) Test methods

More information about our test methods can be found on our website.

#### 2) Durability

The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.

