

# PRODUCT DATA SHEET

## Avery Dennison® V-6700B Series Conspicuity Tape for Contour Marking

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### Introduction

Avery Dennison® V-6700B Series Conspicuity Tape meets the stringent requirements of the ECE 104, Class C regulation. Designed for use on trucks and trailers with rigid surfaces, V-6700B provides superior reflectivity and enhanced nighttime safety. It is a high quality, durable, microprismatic retroreflective material with a pressure sensitive adhesive. The solid construction does not require edge sealing.

Many accidents are avoidable if the driver of the other vehicle had only been able to detect the truck. Reflective contour markings on trucks make detection easy, giving drivers time to see a vehicle, react and avoid a collision. In fact, NHTSA studies demonstrate 41 percent reduction in side and rear trailer impact when using.

conspicuity tape. Avery Dennison® V-6700B Series Conspicuity Tape provides superior reflectivity and may help reduce accidents, prevent injuries and can decrease related costs such as repairs, insurance expenses and fees.



### Face Film

Acrylic Retroreflective Film with Microprisms



### Adhesive

Permanent Pressure Sensitive



### Backing

Polymeric Film



### Durability

8 years - Vertical exposure only



### Shelf Life

1 year from date of purchase

Stored at 22° C/50-55 % RH

### Conversion

**Application Information:** The following Avery Dennison® literature will provide information to the user for proper application, storage, and other requirements. Find the latest information on the Avery Dennison® website, [www.reflectives.averydennison.com](http://www.reflectives.averydennison.com). We encourage you to check our website periodically for updates.

**Where to Apply:** Please check for any changes to local, state, or Federal regulations that are relevant to Conspicuity Tape markings. For large trucks and trailers, exemplary standards include ECE regulations 48 and 104. Section 6.21 of ECE Regulation No. 48 provides detailed instructions on where to apply the amount of Conspicuity Tape that is required. Appendix 9 of Regulation 104 provides exemplary illustrations of Conspicuity Tape on common vehicle and trailer types.

**Maintenance:** Regular cleaning is recommended to ensure maximum performance for vehicle identification. The following cleaning methods are recommended.

A.) By hand with a sponge, cloth, or other non-abrasive media using mild detergent and water.

B.) Pressure washed according to the following parameters: · Maximum Pressure: 80 bar

· Maximum wash temperature: 60°C · Water jets must be a minimum of 30cm from the Conspicuity Tape · Spray water jets at an angle of 90° (±45°) from the surface · Cleaning solution should have a pH of 3-11. Follow dilution ratios of cleaning solutions per manufacturer recommendations.

**Substrates:** The application of Avery Dennison® V-6700B is limited to properly prepared metal and painted metal substrates. Users are urged to carefully evaluate, under actual use conditions, any film application to other substrates. Failure of film caused by other substrates, materials, contamination, or improper surface preparation is not the responsibility of Avery Dennison.

**Instructional Bulletins:** #8.01 on Substrate Requirements and #8.11 on Application & Care: Conspicuity Tape.

### Recommendations

Applications on the following Metal and Painted Metal:

- » Rigid Sided Surfaces
- » Truck & Trailers
- » Buses

### Features

- » Solid construction does not require edge sealing
- » Low temperature adhesive allows for application in cold weather situations
- » Initial repositionability eases application and provides long lasting bond
- » Provides exceptional all-distance viewing at dawn, dusk, and night
- » Approval marks are protected against abrasion ensuring continual compliance
- » Product availability : white, yellow & red

### Physical Characteristics

	Test method <sup>1</sup>	Result
<b>Product</b>		
Caliper, facefilm (micron)	ISO 534	228-280
Shelf life (years)	Stored at 22° C/50-55 % RH	1 from date of purchase
Durability <sup>2</sup> (years)	Vertical exposure	8

### Specification limits

Avery Dennison® V-6700B meets the current applicable requirements for the following specifications:

ECE 104, Class C	Europe
SABS ECE R104	South Africa
AIS-090	India
ECE 104, Class C	Japan

Avery Dennison® suggests you obtain the current requirements from your local agency and ensure product conformance with such requirements. Your AveryDennison Representative can

assist you in this regard.

### Colors and Specification Limits:

V-6700B meets the daytime color, nighttime color and minimum luminance requirements ECE 104, Class C

### Retroreflectivity:

V-6700B **exceeds** all minimum coefficients of retroreflection requirements for ECE 104, Class C as shown herebelow. Minimum Coefficient of Retroreflection ( $R_a$ )

Observation angle 0,333°	Entrance Angle ( $\beta_2$ )	White	Yellow	Red
Entrance Angle ( $\beta_1$ )	5°	450	300	120
	20°	-	-	60

30°	200	130	30
40°	90	75	10
60°	16	10	-

### Temperature range

Application temperature (Minimum: °C)

0

Service temperature (°C to +°C)

-30 to +70

### E-Mark

Avery Dennison® V-6700B Conspicuity Tape contains the E-Mark

**What is it ?** The E-Mark is an approval marking that indicates the Conspicuity Tape meets the stringent requirements of ECE 104. Authorization to display this mark is granted by a certified European test agency that conducts extensive testing to ensure the product meets reflective, color, durability, and other specified requirements.

### How do I read an E-Mark?

C – Indicates the product meets Class C requirements, the correct class for contour/strip marking tapes. Other classes are defined by ECE 104, such as Class D and E, but apply to graphics marking materials, and not contour marking. E13 – Identifies the country of the European test agency granting approval. E13 indicates that the approval was granted in Luxembourg. 104R-000001 – A unique homologation number provided by the test agency to the manufacturer of the Conspicuity Tape. This unique number applies to Avery Dennison V-6700B for vehicles with rigid sides.

**Can it be used in all EU Member States?** Yes. Directive 2007/46 defines the European Community Whole Vehicle Type Approval (ECWVTA). This allows an approval issued by one authority to be accepted in all of the Member States. In other words, an OEM with a vehicle type approval in Luxembourg can sell that vehicle throughout the EU without requiring additional Type Approvals. In order to obtain an ECWVTA, the vehicle must meet the requirements of Regulation 48, which calls for Conspicuity Tape that complies with ECE 104.

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 decrease. For more information on the durability and horizontal exposure please visit the “Avery Dennison® Instructional Bulletin 1.30 EU Durability of Avery Dennison Graphics Films” on the [www.graphics.averydennison.eu](http://www.graphics.averydennison.eu) website.

### Important

Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. 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.

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