

# PRODUCT DATASHEET



## Avery Dennison® V-6700B Conspicuity Tape Prismatic Grade Conspicuity Tape for Enhanced Visibility and Vehicle Recognition – ECE 104 / Class C

Issued: 23-09-2009

### Description:

Avery Dennison® V-6700B Series Reflective tape is a high quality, durable, self-adhesive, prismatic cube corner retroreflective tape. It is designed for use on vehicles for easy nighttime vehicle recognition and increased road safety. V-6700B complies with ECE 104, Class C requirements.

### Construction:

Face Film:	Prismatic reflective film
Adhesive	Repositionable, permanent, acrylic pressure sensitive
Liner:	Polymeric Film

### Warranted Photometric Performance:

Minimum Coefficient of Retroreflection ( $R_A$ ) (cd / lx / m<sup>2</sup>) according to ECE 104 / Class C

Observation Angle	Entrance Angle	White	Yellow	Red
0.33°	5°	450	300	120
	20°	/	/	60
	30°	200	130	30
	40°	90	75	10
	60°	16	10	/

Rem : Entrance angle is defined in C.I.E. notation by its  $\beta_2$  component.  $\beta_1$  &  $\epsilon$  are held at 0°.

### Colors & Specification Limits (Daytime):

V-6700B conspicuity Tape will meet the color specifications set forth in ECE 104 Class C. These values are shown below.

Color	1		2		3		4		Luminance (y %)	
	x	y	x	y	x	y	x	y	Min	Max
White	0.300	0.270	0.385	0.355	0.345	0.395	0.260	0.310	25	--
Yellow	0.545	0.454	0.487	0.423	0.427	0.483	0.465	0.534	16	--
Red	0.690	0.310	0.595	0.315	0.569	0.341	0.650	0.350	3	--

The four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System measured with Standard Illuminant D65 (geometry 45/0°).

### Colors & Specification Limits (Night-time):

V-6700B conspicuity Tape will meet the color specifications set forth in ECE 104. These values are shown below.

Color	1		2		3		4	
	x	y	x	y	x	y	x	y
White	0.417	0.359	0.373	0.402	0.450	0.513	0.548	0.414
Yellow	0.585	0.385	0.610	0.390	0.520	0.480	0.505	0.465
Red	0.720	0.258	0.735	0.265	0.665	0.335	0.643	0.335



www.averygraphics.com

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

**Other Specifications:**

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).

**Physical Properties:**

<b>Outdoor Durability</b>	Avery Dennison V-6700B is warranted 8 years when properly processed and applied (vertical exposure).
<b>Minimum Surface &amp; Ambient Air Application Temperature</b>	16°C
<b>Application Surface</b>	Recommended for flat and simple curved surfaces only. V-6700B is designed for application to painted and non painted aluminum surfaces. All rivets and seams must be cut. V-6700B is not designed for use on tarpaulins or soft- sided curtains, plywood or painted plywood surfaces or stainless steel. Wet method of application is not recommended for V-6700B.
<b>Service Temperature Range</b>	-40°C to 80°C
<b>Typical Film Caliper (w/adhesive)</b>	305 µm to 330 µm
<b>Shelf Life</b>	One year when stored at the following temperature and conditions 20° - 25°C and 50% ± 5% R.H.
<b>Other Tests:</b>	Meets or exceeds applicable requirements outlined for ECE-104, Class C materials including color fastness, stability of photometric properties, resistance to weathering, corrosion, fuels, heat, cleaning and penetration of water

**Color & Size Configurations Available :**

<b>Color Availability</b>	V-6700B White V-6701B Yellow V-6722B Red
<b>Width:</b>	50.8 mm wide roll
<b>Roll Length:</b>	50 meters

*WARRANTY: All statements, technical information 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 with the understanding that Purchaser has independently determined the suitability of such products for its purposes. Avery Dennison products are warranted to be free from defects in material and workmanship for either one year (or the period stated on the specific product information literature in effect at time of delivery, if longer) from date of shipment if said product is properly stored and applied. 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 to repair or replacement of defective product without charge at Avery Dennison's plant or at the location of product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the product.*

*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.*

**NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, OR OTHERWISE (EXCEPT AS TO TITLE), OTHER THAN THOSE EXPRESSLY SET FORTH ABOVE WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, SHALL APPLY TO PRODUCTS SOLD BY AVERY DENNISON. AVERY DENNISON 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..**



www.averygraphics.com

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