

PRODUCT DATASHEET



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

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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) ($\text{cd} / \text{lx} / \text{m}^2$) 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 β_2 component. β_1 & ε 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



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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:

Outdoor Durability	Avery Dennison V-6700B is warranted 8 years when properly processed and applied (vertical exposure).
Minimum Surface & Ambient Air Application Temperature	16°C
Application Surface	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.
Service Temperature Range	-40°C to 80°C
Typical Film Caliper (w/adhesive)	305 µm to 330 µm
Shelf Life	One year when stored at the following temperature and conditions 20° - 25°C and 50% ± 5% R.H.
Other Tests:	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 :

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

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