

Avery Dennison® V-5720 Series Conspicuity Film
For Vehicle Recognition

Prismatic Grade Reflective Sheeting
Pressure Sensitive Adhesive

Data Bulletin # PDB V-5720

Issued: 14MAY01

Updated: 16FEB06

Description:

Avery Dennison® V-5720 Series Reflective sheeting is a high quality, durable, self-adhesive, prismatic lens retroreflective material. It is designed for use on vehicles for easy nighttime vehicle recognition.

Construction:

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

Physical Properties:

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).

Outdoor Durability	7 years when properly processed and applied (vertical exposure).						
Minimum Surface/Ambient Air Application Temperature	+60°F (16°C) for standard temperature adhesive 0°F (-18°C) for low temperature adhesive						
Application Surface	Recommended for flat metal of painted metal surfaces only. This product is not warranted for application to Stainless Steel						
Service Temperature Range	-10°F to +160°F (-23°C to 72°C)						
Typical Film Caliper (w/adhesive)	12.5 to 14.0 mils (318 µm to 356 µm)						
Specifications	Meets or exceeds applicable requirements mentioned in NHTSA amendment FMVSS #108 (49 CFR 571) and carries "DOT-C2" certification						
Minimum Adhesion Values	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">180° Peels</td> </tr> <tr> <td style="width: 50%;">Substrate</td> <td style="width: 50%;">15 min</td> </tr> <tr> <td>Anodized Aluminum</td> <td>4.0 lb/in (700 N/m)</td> </tr> </table> <p><i>NOTE: Tested per ASTM D1000. Always pre-test your specific substrate prior to actual application.</i></p>	180° Peels		Substrate	15 min	Anodized Aluminum	4.0 lb/in (700 N/m)
180° Peels							
Substrate	15 min						
Anodized Aluminum	4.0 lb/in (700 N/m)						
Shelf Life	One year when stored at 73°F (23°C) and 50%± 5%R.H.						



Color Configurations Available:

• White Only (DOT-C2 watermark)
• 7 inch white/11 inch red stripe
• 6 inch white/6 inch red stripe

Minimum Reflectivity Level (per FMVSS 108, NHTSA & USDOT):*

Observation Angle	Entrance Angle	White Sheeting	Red Sheeting
0.2°	-4°	250	60
0.2°	30°	250	60
0.2°	45°	60	15
0.5°	-4°	65	15
0.5°	30°	65	15
0.5°	45°	15	4

*Typical Reflectivity Level**

Observation Angle	Entrance Angle	White Sheeting	Red Sheeting
0.2°	-4°	750	170
0.2°	30°	500	110
0.2°	45°	310	70
0.5°	-4°	230	52
0.5°	30°	120	26
0.5°	45°	82	18

**CPL tested per ASTM E-810*

Colors & Specification Limits (Daytime):

The initial daytime (D65 light source) color of V-5720 Series Sheeting shall conform to the requirements identified in the table below. Tested in accordance to ASTM D-4956-05 (45/0 (or equivalent 0/45) geometries, CIE illuminant D65, and the 1931 CIE 2-degree standard observer.)

	Color								Luminance	
	X1	Y1	X2	Y2	X3	Y3	X4	Y4	Min. (Y%)	Max. (Y%)
White	.303	.287	.368	.353	.340	.380	.274	.316	15	--
Red	.613	.297	.708	.292	.636	.364	.557	.352	2.5	11

The four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System measured with CIE Standard Illuminant D65.

Product Configurations Available:

2 inch by 50 yd. rolls
2 inch precut rolls*



**Precut rolls are kiss cut through the face for easy removal from the liner.*

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V-5720 is protected by the following US patents: 4 460 449; 4,633,567; 5,156,863; 5,213,872; 5,310,436; 5,854,709

