

Avery Dennison® T-9500-Omni-View™

Prismatic Grade Reflective Sheeting
 Permanent Traffic Signage
 Pressure Sensitive Adhesive for Aluminum

Data Bulletin # T-9500-Eur

Dated: 10/05

Description:

Avery Dennison® Omni-View Prismatic Grade Reflective Sheeting is a super-high performance, durable, micro-prismatic retroreflective material. Omni-View can be specified for all traffic applications because of its bright performance at short, medium and long distances.

Omni-View is suitable for urban applications such as stop, give -way, and street name signs where added sign brightness is needed to compete against background illumination. Omni-View is also suitable in high speed applications such as speed limit, warning and guide signs where long distance brightness ensures sign conspicuity and legibility.

Construction:

Face Film:	High gloss
Adhesive	Permanent Pressure Sensitive (Class 1).
Liner:	Poly Liner

Photometric Performance:

Minimum Coefficient of Retroreflection (R_A) (cd / lx / m²).

Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Fluorescent Yellow-Green
0.1°	5°	750	560	75	135	37	600
	30°	370	280	37	74	17	300
0.2°	5°	525	395	52	95	30	420
	30°	215	162	22	43	10	170
0.5°	5°	310	230	31	56	18	245
	30°	135	100	14	27	6	110
1.0°	5°	80	60	8.0	16	3.6	64
	30°	45	34	4.5	9	2.0	36

Note: 0.1° Observation angle is a "Supplemental Requirement" in ASTM D-4956. It represents long highway viewing distances of about 275 meters and greater.

Colors & Specification Limits (Daytime)^A:

Color	1		2		3		4		Luminance (Y%)	
	x	y	X	y	x	y	x	Y	Min	Max
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	40	--
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	24	45
Blue ^B	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216	1.0	10
Green ^B	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771	3.0	12
Red	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346	3.0	15
Fluorescent Yellow-Green	0.387	0.610	0.369	0.546	0.428	0.496	0.460	0.540	60	--

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

^BThe saturation limit of green and blue may extend to the border of the CIE chromaticity locus for spectral colors

Avery Dennison® T-9500-Omni-View continued...

Specifications:

Omni-View Series sheeting meets the requirements of ASTM D 4956 for Type XI sheeting as proposed by Avery Dennison, European CUAP Table 10, 11, 12 and 14 as well as being performance rated within BS8408. Consult your Avery Dennison Representative for information concerning additional world-wide specifications.

Physical Properties:

Outdoor Durability	Avery Dennison Omni-View, in standard colors, is a 12 year durable product when properly processed and applied. T-9513 Omni-View Fluorescent Yellow-Green is a 10 year durable product when properly processed and applied. Refer to the appropriate Avery Dennison product warranty for specific details and limitations.
Minimum Surface & Ambient Air Application Temperature	18°C when applied with a squeeze roll applicator.
Application Surface	Flat surfaces only. Always pretest your specific substrate prior to application. Note: Wet method of application is not recommended for Avery Dennison Omni-View reflective sheeting.
Service Temperature Range	-40°F to 180°F (-40°C to 82°C)
Typical Film Caliper (w/adhesive)	430 to 460 µm
Shelf Life	One year when stored at the following temperature and conditions 20° - 25°C and 50% +/- 5% R.H.
Other Tests:	Omni-View meets all other requirements set forth in ASTM D 4956 including Shrinkage, Flexibility, Liner removal, Adhesion, Impact resistance, Specular gloss and Outdoor weathering.

Application & Converting Information:

Omni-View is available 45.7m rolls of 920mm and 1220mm width.

The following Avery Dennison literature will provide complete information to the user for proper application, storage, and other requirements and is available from your Avery Dennison representative, from the Avery Dennison web-site www.reflectives.averydennison.com, or on request:

Approved screen printing inks and overlays:

Supplier	Series	System	Instructional Bulletins
Avery Dennison	4930 Inks	1 Part Solvent	#8.40
Avery Dennison	OL-2000	Acrylic Overlay	

Sign Mounting /Orientation:

Omni-View is omni-directional. It does not require a special orientation for mounting, and therefore, does not require an orientation arrow datum mark.

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Instructional Bulletins:	
Sheeting Care & Handling	#8.00
Substrate Requirements	#8.01
Application Techniques for PS Sheeting	#8.10
Steel Rule Die-Cutting	#8.20
Thermal Die Cutting	#8.20
Sign Cutting	#8.25
Screen Preparation	#8.30
Troubleshooting Printing & Processing	#8.34
Proper Sign Storage Booklet	#8.50

Color Availability:	
T-9500	White
T-9501	Yellow
T-9505	Blue
T-9507	Green
T-9508	Red
T-9513	Fluorescent Yellow-Green

Warranty:

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.

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