

Avery Dennison® T-5500A
High Intensity Grade Reflective Sheeting
Permanent Traffic Signage
Pressure Sensitive Adhesive for Aluminum

Data Bulletin # T-5500A

Revised 10/2003

Description:

Avery Dennison® T-5500A High Intensity Grade Reflective Sheeting is a high-quality, encapsulated lens material. This reflective sheeting offers exceptional value for permanent traffic signage applications. Meets applicable requirements for high intensity grade sheeting applications for Type III retroreflective sheeting as set forth in ASTM D 4956.

Construction:

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

Warranted Photometric Performance:

Type III values per ASTM D 4956. Minimum Coefficient of Retroreflection (R_A) (cd / lx / m²)

Observation Angle	Entrance Angle	White	Yellow	Orange	Green	Red	Blue	Brown
0.1°	-4°	300	200	120	54	54	24	14
	30°	180	120	72	32	32	14	10
0.2°	-4°	250	170	100	45	45	20	12
	30°	150	100	60	25	25	11	8.5
0.5°	-4°	95	62	30	15	15	7.5	5.0
	30	65	45	25	10	10	5.0	3.5

Note: 0.1° Observation angle is a "Supplemental Requirement" in ASTM D-4956. It represents long highway viewing distances of about 275 Meters (900 ft.) and greater.

Colors & Specification Limits (Daytime):

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	27	--
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	15	45
Orange	0.558	0.352	0.636	0.364	0.570	0.429	0.506	0.404	14	30
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	9.0
Red	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346	2.5	12
Brown	0.430	0.340	0.610	0.390	0.550	0.450	0.430	0.390	4.0	9.0

^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-5500A continued...

Other Specifications:

Consult your Avery Dennison Representative for information concerning additional world-wide specifications.

Physical Properties:

Outdoor Durability	Avery Dennison T-5500A is warranted for 10 years (3 years for orange) when properly processed and applied..
Minimum Surface & Ambient Air Application Temperature	65°F (18°C) when applied with a squeeze roll applicator.
Application Surface	Flat surfaces only. Not recommended for unpainted stainless steel. Always pretest your specific substrate prior to application. Note: Wet method of application is not recommended for Avery Dennison T-5500A reflective sheeting.
Service Temperature Range	-40°F to 180°F (-40°C to 82°C)
Typical Film Caliper (w/adhesive)	11 to 12 mils
Shelf Life	One year when stored at the following temperature and conditions 68° - 77°F (20° - 25°C) and 50% \pm 5% \pm R.H.
Other Tests:	T-5500A meets all other requirements set forth in ASTM D 4956 including Shrinkage, Flexibility, Liner removal, Adhesion, Impact resistance, Specular gloss and Outdoor weathering.

Application & Conversion Information:

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:

Ink Supplier	Ink Series	Ink System	Instructional Bulletins
Avery Dennison	4930 Inks	1 Part Solvent	#8.40

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Instructional Bulletins:	
Storage, Handling & Cleaning	#8.00
Substrate Requirements	#8.01
Contractor's Guide for Storage	#8.04
Application of PS Sheeting	#8.10
Cutting Methods	#8.20
Computer Sign Cutting	#8.25
Screen Preparation	#8.30
Troubleshooting Printing	#8.34
Proper Storage Booklet	#8.50
Ink Recommendation Guide	#8.55

Color Availability:	
T-5500	White
T-5501	Yellow
T-5504	Orange
T-5505	Blue
T-5507	Green
T-5508	Red
T-5509	Brown

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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T-5500A is protected by one or more of the following US patents: D413,731; 6,586,067