

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

Data Bulletin # T-5500-Eur.  
 Dated: 05/01

**Description:**

Avery Dennison® T-5500 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 as set forth in Type II retroreflective sheeting in EN 12899.

**Construction:**

Face Film	High gloss
Adhesive	Permanent pressure sensitive
Liner	Film

**Photometric Performance:**

Type II values per EN 12899 Minimum Coefficient of Retroreflection ( $R_A$ ) (cd / lx / m<sup>2</sup>)

Observation Angle	Entrance Angle	White	Yellow	Orange	Green	Red	Blue	Brown
0.2°	5°	250	170	100	45	45	20	12
	30°	150	100	60	25	25	11	8.5
	40°	110	70	29	12	15	8	5
0.33°	5°	180	120	65	21	25	14	8
	30°	100	70	40	12	14	8	5
	40°	95	60	20	11	13	7	3
2°	5°	5	3	1.5	0.5	1	0.2	0.2
	30°	2.5	1.5	1	0.3	0.4	0.1	0.1
	40°	1.5	1	1	0.2	0.3	0.1	0.1

**Colors & Specification Limits (Daytime):**

T-5500 sheeting will meet the color specifications for Type II retroreflective sheeting as set forth in EN12899. These values are shown below.

Color	1		2		3		4		Luminance (Y%)	
	x	y	x	y	x	y	x	y	Min	Max
White	0.355	0.355	0.305	0.305	0.285	0.325	0.335	0.375	27	--
Yellow	0.545	0.454	0.487	0.423	0.427	0.483	0.465	0.534	15	45
Orange	0.610	0.390	0.535	0.375	0.506	0.404	0.570	0.429	14	30
Red	0.735	0.265	0.674	0.236	0.569	0.341	0.655	0.345	2.5	12
Green	0.007	0.703	0.248	0.409	0.177	0.362	0.026	0.399	2.0	10
Blue	0.078	0.171	0.150	0.220	0.210	0.160	0.137	0.038	3.0	9
Brown	0.455	0.397	0.523	0.429	0.558	0.394	0.479	0.373	4.0	9

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°).

**Other Specifications:**

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

**Avery Dennison® T-5500 continued...**

**Physical Properties:**

<b>Outdoor Durability</b>	Avery Dennison T-5500 sheeting is warranted for 10 years (3 years for orange) when properly processed and applied.
<b>Minimum Surface &amp; Ambient Air Application Temperature</b>	18°C when applied with a squeeze roll applicator
<b>Application Surface</b>	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-5500 reflective sheeting.
<b>Service Temperature Range</b>	-40°C to 82°C
<b>Typical Film Caliper (w/adhesive)</b>	279 µm to 305 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>	T-5500 meets all other requirements set forth in ASTM D 4956 & EN12899 including Shrinkage, Flexibility, Liner removal, Adhesion, Impact resistance, Specular gloss and Outdoor weathering. (Type II).

**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](http://www.reflectives.averydennison.com) or on request:

**Approved screen printing inks:**

<b>Ink Supplier</b>	<b>Ink Series</b>	<b>Ink System</b>	<b>Instructional Bulletins</b>
Avery Dennison	4930	1 Part Solvent	#8.40
Avery Dennison	7TS™	1 Part Solvent	#8.37
Avery Dennison	10TS™	2 Part Solvent	#8.32

<b>Instructional Bulletins:</b>	
Sheeting Care & Handling	#8.00
Substrate Requirements	#8.01
Application Techniques PS Sheeting	#8.10
Steel Rule Die-Cutting	#8.20
Thermal Die Cutting	#8.20
Flatbed Plotter/Cutting	#8.25
Screen Preparation	#8.30
Troubleshooting Printing & Processing	#8.34

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

**Warranty:**

Refer to the appropriate Avery Dennison product warranty available from your Avery Dennison representative.

**Avery Dennison / Traffic & Safety**

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