

**Avery Dennison® T-1200**  
**Engineer Grade Reflective Sheeting**  
**Permanent Traffic Signage**  
**Pressure Sensitive Adhesive for Wood**

Data Bulletin # T-1200  
 Issued: 05/01

**Description:**

Avery Dennison® T-1200 Engineer Grade Reflective sheeting is a high quality, durable, enclosed lens retroreflective material. This reflective sheeting offers exceptional value for permanent traffic signage applications. Meets applicable requirements for engineer grade sheeting applications for Type I retroreflective sheeting as set forth in ASTM D 4956.

**Construction:**

<b>Face Film:</b>	High gloss
<b>Adhesive</b>	Permanent pressure sensitive (Class 1)
<b>Liner:</b>	White Polyethylene Coated Paper StaFlat®

**Warranted Photometric Performance:**

Type I values per ASTM D 4956. Minimum Coefficient of Retroreflection ( $R_A$ ) (cd / lx / m<sup>2</sup>)

Observation Angle	Entrance Angle	White	Yellow	Orange
0.2°	-4°	70	50	25
	30°	30	22	7
0.5°	-4°	30	25	13
	30	15	13	4

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

The T-1200 sheeting will meet the color specifications for Type I retroreflective sheeting as set forth in ASTM D 4956. These values are shown below.

Color	1		2		3		4		Luminance (Y%)	
	x	y	x	y	x	y	x	y	Min	Max
White	0.303	0.287	0.368	0.353	0.340	0.380	0.274	0.316	27	--
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	15	45
Orange	0.550	0.360	0.630	0.370	0.581	0.418	0.516	0.394	14	30

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

**Other Specifications:**

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

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**Physical Properties:**

<b>Outdoor Durability</b>	Avery Dennison T-1200 sheeting is warranted for 7 years (3 years for orange) when properly processed and applied (vertical exposure, unprinted film).
<b>Minimum Surface &amp; Ambient Air Application Temperature</b>	40°F (4°C) when applied with a squeeze roll applicator
<b>Application Surface</b>	Recommended for flat surfaces only. Smooth, dry wood surfaces must be sealed with a compatible paint or primer prior to application, following all applicable paint/primer-drying instructions. Use of MDO or HDO plywood is preferred. Always pretest your specific substrate prior to actual application. <i>Note: Use of wet method of application is not recommended for T-1200 reflective sheeting.</i>
<b>Service Temperature Range</b>	-40°F to 180°F (-40°C to 82°C)
<b>Typical Film Caliper (w/adhesive)</b>	4.5 to 5.5 mils (114 µm to 140 µm)
<b>Shelf Life</b>	One year when stored at the following temperature and conditions 68° - 77°F (20° - 25°C) and 50% ± 5%± R.H.
<b>Other Tests:</b>	T-1200 meets all other requirements set forth in ASTM D 4956 including Shrinkage, Flexibility, Liner removal, Adhesion, Impact resistance, Specular gloss and Outdoor weathering (Type 1).

**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	10TS™	2 Part Solvent	#8.32
Avery Dennison	UVTS™	UV Curing	#8.33
Avery Dennison	7TS™	1 Part Solvent	#8.37
Maribu	PU	Solvent	
Visprox	2000	Solvent	

**Avery Dennison® T-1200 continued...**

Instructional Bulletins:	
Sheeting Care & Handling	#8.00
Substrate Requirements	#8.01
Application Techniques PS Sheeting	#8.10
Steel Rule Die-Cutting	#8.20
Guillotine Cutting	#8.20
Thermal Die Cutting	#8.20
Flatbed Plotter/Cutting	#8.25

Color Availability:	
T-1200	White
T-1201	Yellow
T-1204	Orange

**Warranty:**

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

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