

Avery Dennison® T-2200
Super Engineer Grade Reflective Sheeting
Permanent Traffic Signage
Pressure Sensitive Adhesive for Wood

Data Bulletin # T-2200
 Issued: 05/01

Description:

Avery Dennison® T-2200 Super Engineer Grade Reflective sheeting is a premium quality, durable, enclosed lens retroreflective material. This reflective sheeting offers exceptional value for permanent traffic signage applications. Meets applicable requirements for super engineer grade sheeting applications for Type II retroreflective sheeting as set forth in ASTM D 4956.

Construction:

Face Film:	High gloss
Adhesive	Permanent pressure sensitive (Class 1)
Liner:	White Polyethelene Coated Paper StaFlat®

Photometric Performance:

Type II values per ASTM D 4956-99. Minimum Coefficient of Retroreflection (R_A) (cd / lx / m²)

Observation Angle	Entrance Angle	White	Orange
0.2°	-4°	140	60
	30°	60	22
0.5°	-4°	50	20
	30	28	12

Colors & Specification Limits (Daytime):

T-2200 sheeting will meet the color specifications for Type II 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	--
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 regarding additional world-wide specifications.

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Physical Properties:

Outdoor Durability	Avery Dennison T-2200 is warranted for 10 years (3 years for orange) when properly processed and applied.
Minimum Surface & Ambient Air Application Temperature	40°F (4°C) when applied with a squeeze roll applicator
Application Surface	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. Note: Use of wet method of application is not recommended for T-2200 reflective sheeting.
Service Temperature Range	-40°F to 180°F (-40°C to 82°C)
Typical Film Caliper (w/adhesive)	5.5 to 6.5 mils (140µm to 165µm)
Shelf Life	One year when stored at the following temperature and conditions 68° - 77°F (20° - 25°C) and 50% ± 5%± R.H.
Other Tests:	T-2200 meets all other requirements set forth in ASTM D 4956 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 or on request:

Approved screen printing inks:

Ink Supplier	Ink Series	Ink System	Instructional Bulletins
Avery Dennison	7TS™	Part Solvent	#8.37
Avery Dennison	10TS™	Part Solvent	#8.32
Avery Dennison	UVTS™	UV Curable	#8.33

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Instructional Bulletins:	
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

Color Availability:	
T-2200	White
T-2204	Orange

Warranty:

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

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