

Avery Dennison® T-6500-EPG
High Intensity Prismatic Grade Reflective Sheeting
Permanent Traffic Signage
Pressure Sensitive Adhesive for Aluminum

Data Bulletin # T-6500-HIP-Eur.

Dated: 01/05

Description:

Avery Dennison® T-6500-HIP High Intensity Prismatic Grade Reflective Sheeting is a super high-intensity, durable micro-prismatic retroreflective material. Its unique prismatic construction provides the highest level of efficiency, It meets the applicable requirements for High Intensity Prismatic Grade retroreflective sheeting per, glass beads EN-12899-Part 1 and prismatic CUAP N°1 06/04 European specifications as well as ASTM D-4956-01a Type 4.

Construction:

Face Film:	High gloss
Adhesive	Permanent Pressure Sensitive
Liner:	Film

Warranted Photometric Performance:

Minimum Coefficient of Retroreflection (R_A) (cd / lx / m²). Meets CUAP Table 7 and ASTM Type 4.

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-6500-HIP sheeting will meet the color specifications set forth in EN 12899-Part 1 - Class 2.

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	40	--
Yellow	0.545	0.454	0.487	0.423	0.427	0.483	0.465	0.534	24	--
Orange	0.610	0.390	0.535	0.375	0.506	0.404	0.570	0.429	14	--
Blue	0.078	0.171	0.150	0.220	0.210	0.160	0.137	0.038	1	--
Green	0.007	0.703	0.248	0.409	0.177	0.362	0.026	0.399	3	--
Red	0.735	0.265	0.674	0.236	0.569	0.341	0.655	0.345	3	--
Brown	0.455	0.397	0.523	0.429	0.479	0.373	0.558	0.394	3	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°).

Avery Dennison® T-6500-HIP continued...

Other Specifications:

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

Physical Properties:

Outdoor Durability	Avery Dennison T-6500-HIP is warranted 10 years (3 years for orange) when properly processed and applied.
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.
Service Temperature Range	-40°C to 82°C
Typical Film Caliper (w/adhesive)	430 µm to 456 µm
Shelf Life	One year when stored at the following temperature and conditions 20° - 25°C and 50% ± 5% R.H.
Other Tests:	T-6500-HIP meets all other requirements set forth in EN-12899-1 & ASTM D 4956-01a including Shrinkage, Flexibility, Liner removal, Adhesion, Impact resistance, Specular gloss and Outdoor weathering.

Application & Converting 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
Avery Dennison	7TS™	1 Part Solvent	#8.37
Avery Dennison	UVTS™	UV curable	#8.38

Sign Mounting /Orientation:

This prismatic sheeting does not require a special orientation for mounting and thus does not require an orientation arrow (datum mark).

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 (Use T-6500-EPG Cuttable)	#8.25
Screen Preparation	#8.30
Troubleshooting Printing & Processing	#8.34

Color Availability:	
T-6500-EPG	White
T-6501-EPG	Yellow
T-6504-EPG	Orange
T-6505-EPG	Blue
T-6507-EPG	Green
T-6508-EPG	Red
T-6509-EPG	Brown
T-6527-EPG	Worboys Green

Warranty:

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

Avery Dennison / Traffic & Safety

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