DECLARATION OF PERFORMANCE

Construction Products Regulation 305/2011

No. 7000-1610

Prismatic Retroreflective Sheeting:

T-7500MVP Series
T-7500MVP Series with OL-2000 Transparent EC Film
T-7500MVP Series with 4930 Screen Ink
T-7500MVP Series with 3801 Traffic Film Black
T-7500MVP Series with TrafficJet Ecosolvent Ink & Clear Overlay
T-7500MVP Series with TrafficJet UV Ink & Clear Overlay

T-7500MVP Series is a high-quality, 10-year durable, microprismatic retroreflective material with a pressure sensitive adhesive. This product is intended for use on permanent or temporary highway safety devices that require robust Class 3 retroreflective performance.

Manufactured by: Avery Dennison, Reflective Solutions

Willem Einthovenstraat 11, 2342 BH
Oegstgeest, The Netherlands

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Mt. Prospect, IL 60056 USA

Avery Dennison performed factory product control and product sampling per assessment and verification of constancy of performance under System 1. Silniční vývoj - ZDZ spol. s r. o. Notified Body 1388 performed initial type testing, inspection of manufacturing facilities and factory products controls under system 1. Tzus, 060-045345 issued **ETA 15/0889** dated 25/10/2017. Anti-Dew OL1200 included in ETA's 22/0240 & 22/0241 dated 22/08/2022

Essential Characteristics		Performance	Assessment Document
Daylight Chromaticity		Per Table 3	EAD 120001-01-0106, September 2016
Luminance Factor		Per Table 3	
Coefficient of retro-reflection, Rotational Symmetry		Per Table 4, Rotational Variation < 10%	
Impact Resistance		No Effect	
Visibility after Weathering, Natural & Accelerated Artificial	Retroreflection	80% of Initial Requirement	
	Chromaticity & Luminance Factor	Per Table 2 Below	
Adhesion		Peel < 50mm	

The performance of T-7500 MVP Series is in conformance with declarations herein when evaluated per EAD 120001-01-0106. This declaration of performance is issued for performance clarity under the sole discretion of Avery Dennison.

Signed for on behalf of Avery Dennison by: Erika Shang, Quality Manager

Erika Shang

Date: 16 November, 2022, Illinois, USA

Table 2: Daytime Chromaticity and Luminance Factors[A] CR1

Colour		Colour Box Coordinates				Luminance Factor ß
		1	2	3	4	
White	x	0,355	0,305	0,285	0,335	≥ 0,27
	y	0,355	0,305	0,325	0,375	
Yellow	x	0,545	0,487	0,427	0,465	≥ 0,16
	y	0,454	0,423	0,483	0,534	
Red	x	0,735	0,674	0,569	0,655	≥ 0,03
	y	0,265	0,236	0,341	0,345	
Orange	x	0,610	0,535	0,506	0,570	≥ 0,14
	y	0,390	0,375	0.404	0,429	
Green	x	0,007	0,248	0,177	0,026	≥ 0,03
	y	0,703	0,409	0,362	0,399	
Green 2	x	0,313	0,313	0,248	0,127	$0,01 \leq \beta \leq 0,07$
	y	0,682	0,453	0,409	0,557	
Brown	x	0,455	0,523	0,479	0,558	$0,03 \leq \beta \leq 0,09$
	y	0,397	0,429	0.373	0,394	
Blue	x	0,078	0,150	0,210	0,137	≥ 0,01
	y	0,171	0,220	0,160	0,038	
Black	x	0,385	0,300	0,260	0,345	≤0,03
	y	0,355	0,270	0,310	0,395	
Fluorescent Yellow	x	0,521	0,557	0,479	0,454	≥ 0,38
	y	0,424	0,442	0,520	0,491	
Fluorescent Orange	x	0,595	0,645	0,570	0,531	≥ 0,20
	y	0,351	0,355	0,429	0,414	
Fluorescent Yellow-Green	x	0,387	0,460	0,438	0,376	≥ 0,60
	y	0,610	0,540	0,508	0,568	

Notes: [A] – When material is sampled, processed and tested per Avery Dennison Product Data Bulletins, Instructional Bulletins, and EAD 120001-01-0106, Section 2.2.1.

Table 3: Daytime Chromaticity and Luminance Factors[A] CR2

Colour		Colour Box Coordinates				Luminance Factor ß
		1	2	3	4	
White	x	0,305	0,335	0,325	0,295	≥ 0,27
	y	0,315	0,345	0,355	0,325	
Yellow	x	0,494	0,470	0,513	0,545	≥ 0,16
	y	0,505	0,480	0,437	0,454	
Red	x	0,735	0,700	0,610	0,660	≥ 0,03
	y	0,265	0,250	0,340	0,340	
Orange	x	0,631	0,560	0,506	0,570	≥ 0,14
	y	0,369	0,360	0.404	0,429	
Green	x	0,110	0,170	0,170	0,110	≥ 0,03
	y	0,415	0,415	0,500	0,500	
Green 2	x	0,313	0,313	0,248	0,127	$0,01 \leq \beta \leq 0,07$
	y	0,682	0,453	0,409	0,557	
Brown	x	0,455	0,523	0,479	0,558	$0,03 \leq \beta \leq 0,09$
	y	0,397	0,429	0.373	0,394	
Blue	x	0,130	0,160	0,160	0,130	≥ 0,01
	y	0,090	0,090	0,140	0,140	
Black	x	0,385	0,300	0,260	0,345	≤0,03
	y	0,355	0,270	0,310	0,395	
Fluorescent Yellow	x	0,521	0,557	0,479	0,454	≥ 0,38
	y	0,424	0,442	0,520	0,491	
Fluorescent Orange	x	0,595	0,645	0,570	0,531	≥ 0,20
	y	0,351	0,355	0,429	0,414	
Fluorescent Yellow-Green	x	0,387	0,460	0,438	0,376	≥ 0,60
	y	0,610	0,540	0,508	0,568	

Notes: [A] – When material is sampled, processed and tested per Avery Dennison Product Data Bulletins, Instructional Bulletins, and EAD 120001-01-0106, Section 2.2.1.

Table 4: Coefficients of Retroreflection[1], R_A (cd/lux/m^2)
(Includes DIN 3A, BEL3B, Spain 3ZA Requirements)

		R_A						Fluorescent colours		
Entrance Angle (β_1, β_2=0°)	Observation Angle (α)	White	Yellow	Orange	Green	Red	Blue	Yellow	Orange	Yellow /Green
5°	0.1°	850	550	425	85	170	55	510	255	680
15°								360	180	480
20°		600	390	300	60	120	40	-	-	-
30°		425	275	210	40	85	28	255	128	340
40°		275	175	135	25	55	18	-	-	-
5°	0.2°	625	400	310	60	125	40	375	188	500
15°								270	135	360
20°		450	290	225	45	90	30	-	-	-
30°		325	210	160	30	65	20	195	98	260
40°		200	130	100	20	40	13	-	-	-
5°	0.33°	425	275	210	40	85	28	255	128	340
15°								180	90	240
20°		300	195	150	30	60	20	-	-	-
30°		225	145	110	20	45	15	135	68	180
40°		150	95	75	15	30	10	-	-	-
5°	0.5°	180	140	110	18	40	9	-	-	-
30°		90	75	50	9	23	4	-	-	-
40°		70	55	40	5	16	2.5	-	-	-

Notes: 1 – When material is sampled, processed and tested per Avery Dennison Product Data Bulletins, Instructional Bulletins, and EAD 120001-01-0106, Section 2.2.3 at ε=0° only.

Table 5: Specific Signing Combination Performance Declarations

Signing Component	Product Name	Colors and Product Number	Declared Retroreflective Detail
Native Sheeting	T-7500 MVP Series	T-7500 MVP White T-7501 MVP Yellow T-7505 MVP Blue T-7507 MVP Green T-7508 MVP Red T-7511MVP Fluorescent Yellow T-7513MVP Fluorescent Yellow-Green*	Per Table 4
Electronic Cuttable Overlay[#]	OL-1000 OL-2000 OL-1200 EC Film & 3801 Black	OL-2000/1000 Clear applied to White & Yellow Native Sheeting OL1200 applied to White sheeting OL-2001 Yellow OL-2005 Blue OL-2007 Green OL-2008 Red 3801 Black	70% of Table 4
Solvent Screen Ink[#]	4930 Series	Blue Red Black	70% of Table 4
Digital Printing Ecosolvent[#]	TrafficJet with OL-1000 or OL-2000 Clear or OL1200	Yellow Blue Green Red Red onto T-7501 MVP Yellow (not OL1200) Brown Black	70% of Table 4
Digital Printing UV[#]	TrafficJet with OL-1000 or OL-2000 Clear or OL1200 Anti-Dew	Yellow [a] Blue [a] Green [a] Red Red onto T-7501MVP Yellow[+] (not OL-2000) Worboy Green [a] (not OL-2000) Brown [a] Black Black onto T-7501B Yellow (not OL1200)	70% of Tables 4

Notes: [#] - Declared performance for components assumes application to white native sheeting unless otherwise noted.

[+] - Declared performance is 50% of red values stated in Table 4.

* Meets RA3-ZA, RA3-ZB & RA3-ZC