DECLARATION OF PERFORMANCE

Construction Products Regulation 305/2011

No. 7100M-1600

High Intensity Microprismatic Retroreflective Sheeting: WR-7100M White



Avery Dennison WR-7100M Metalized Microprismatic Retroreflective Sheeting is designed for temporary work zone signs and traffic control devices and is a high-quality, 5-year durable base sheeting, 3-year printed, microprismatic retroreflective material with a pressure sensitive adhesive. This product is intended for use on delineators

Manufactured by: Avery Dennison, Reflective Solutions

Willem Einthovenstraat 11, 2342 BH Oegstgeest, The Netherlands 902 Feehanville Rd. 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 and issued No.1388-CPR-19.2/2023 in accordance with EN12899-3:2007.

Essential Ch	aracteristics	Performance	Assessment Document
Ι	Daylight Chromaticity	CR1/2	
	Luminance Factor CR1/2		
Coeffici	efficient of retro-reflection R1 Class 3		
	Impact Resistance	No Effect	
(Corrosion Resistance	No Effect	EN 12899-1:2007
	Durability	NPD	EN 12899-3:2007
Visibility after Weathering,	Retroreflection	80% of Initial Requirement 100% of initial requirement EN12899-3	
Natural & Accelerated Artificial	Chromaticity & Luminance Factor	Per Table 2 & 3 Below	

The performance of W-7100M Series is in conformance with declarations herein when evaluated per EN 12899-1:2007 and EN 12899-3:2007. 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

Date: 27 November 2023, Illinois, USA

Classification: Avery Dennison - Internal

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Table 2: Daytime Chromaticity and Luminance Factors^A CR1

Colour		Colour Box Coordinates				Luminance Factor ß
		1	2	3	4	
White	х	0,355	0,305	0,285	0,335	≥ 0,27
	У	0,355	0,305	0,325	0,375	20,27

Notes: A – When material is sampled, processed and tested per Avery Dennison Product Data Bulletins, Instructional Bulletins, and EN 12899-1:2007, Section 4.1.1.3.

Table 3: Daytime Chromaticity and Luminance Factors CR2

Colour		Colour Box Coordinates				Luminance Factor ß
		1	2	3	4	
White	х	0,305	0,335	0,325	0,295	>0.27
	У	0,315	0,345	0,355	0,325	≥ 0,27

Notes: A – When material is sampled, processed and tested per Avery Dennison Product Data Bulletins, Instructional Bulletins, and EN 12899-1:2007, Section 4.1.1.3.

Table 4: Night-time Chromaticity coordinates

Colour		Colour Box Coordinates				
		1	2	3	4	
White	х	0,390	0,440	0,500	0,500	
	У	0,410	0,440	0,440	0,390	

Notes: A – When material is sampled, processed and tested per Avery Dennison Product Data Bulletins, Instructional Bulletins, and EN 12899-3:2007, Section 7.3.2.2.

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Table 5: Coefficients of Retroreflection², R_A (cd/lux/m²) (Includes RA2/R2 Requirements)

		R_A
Entrance Angle (β_1 , β_2 =0°)	Observati on Angle (α)	White
5°		250
30°	0.2°	150
40°		110
5°		180
30°	0.33°	100
40°		95
5°		5
30°	2.0°	2.5
40°		1.5

Notes: 2 – 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 6: Minimum initial coefficients of retroreflection R_A for type R1 Class 3 retroreflectors

Entrance Angle β_2 $(\beta_1=0^\circ)$	Observation Angle (α)	Coefficient of retroreflection R_A (cd× lx ^{-1*} m ⁻²) Type 1, Class 3
5°	20°	300
30°	2.0°	2.5

Table 7: Specific Signing Combination Performance Declarations

Signing Component	Product Name	Colors and Product Number	Declared Retroreflective Detail
Native Sheeting	WR-7100M Series	WR-7100M White	Per Table 5/6