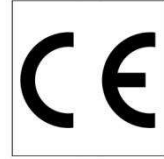


DECLARATION OF PERFORMANCE

Construction Products Regulation 305/2011

No. 6100-1600

High Intensity Microprismatic Retroreflective Sheeting: WR-6100 Series



Avery Dennison WR- 6100 Series Metalized Microprismatic Retroreflective Sheeting 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-1.2/2025 in accordance with EN12899-3:2007.

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

The performance of WR-6100 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 & Engineering Manager

Date: 13 February 2025, Illinois, USA

Table 2: Daytime Chromaticity and Luminance Factors^A CR1

| Colour | | Colour Box Coordinates | | | | Luminance Factor β |
|--------|---|------------------------|-------|-------|-------|--------------------------|
| | | 1 | 2 | 3 | 4 | |
| White | x | 0,355 | 0,305 | 0,285 | 0,335 | $\geq 0,27$ |
| | y | 0,355 | 0,305 | 0,325 | 0,375 | |
| Yellow | x | 0,522 | 0,470 | 0,427 | 0,465 | $\geq 0,16$ |
| | y | 0,477 | 0,440 | 0,483 | 0,534 | |
| Red | x | 0,735 | 0,674 | 0,569 | 0,655 | $\geq 0,03$ |
| | y | 0,265 | 0,236 | 0,341 | 0,345 | |

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 β |
|--------|---|------------------------|-------|-------|-------|--------------------------|
| | | 1 | 2 | 3 | 4 | |
| White | x | 0,305 | 0,335 | 0,325 | 0,295 | $\geq 0,27$ |
| | y | 0,315 | 0,345 | 0,355 | 0,325 | |
| Yellow | x | 0,494 | 0,470 | 0,513 | 0,545 | $\geq 0,16$ |
| | y | 0,505 | 0,480 | 0,437 | 0,454 | |
| Red | x | 0,735 | 0,700 | 0,610 | 0,660 | $\geq 0,03$ |
| | y | 0,265 | 0,250 | 0,340 | 0,340 | |

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 | 5 |
| White | x | 0,390 | 0,440 | 0,500 | 0,500 | 0,420 |
| | y | 0,410 | 0,440 | 0,440 | 0,390 | 0,370 |
| Yellow | x | 0,513 | 0,500 | 0,545 | 0,572 | |
| | y | 0,487 | 0,470 | 0,425 | 0,425 | |
| Red | x | 0,652 | 0,622 | 0,714 | 0,735 | |
| | y | 0,348 | 0,348 | 0,256 | 0,265 | |

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.

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

| Entrance Angle (β_1 , $\beta_2=0^\circ$) | Observation Angle (α) | R_A | | | | | | | | |
|--|--------------------------------|-------|--------|--------|-------|-----|------|-------|--------------|------|
| | | White | Yellow | Orange | Green | Red | Blue | Brown | Worboy Green | Grey |
| 5° | 0.2° | 250 | 170 | 100 | 45 | 45 | 20 | 12 | 20 | 125 |
| 30° | | 150 | 100 | 60 | 25 | 25 | 11 | 8.5 | 15 | 75 |
| 40° | | 110 | 70 | 29 | 12 | 15 | 8 | 5 | 6 | 55 |
| 5° | 0.33° | 180 | 120 | 65 | 21 | 25 | 14 | 8 | 14 | 90 |
| 30° | | 100 | 70 | 40 | 12 | 14 | 8 | 5 | 11 | 50 |
| 40° | | 95 | 60 | 20 | 11 | 13 | 7 | 3 | 5 | 47 |
| 5° | 2.0° | 5 | 3 | 1.5 | 0.5 | 1 | 0.2 | 0.2 | 0.5 | 2.5 |
| 30° | | 2.5 | 1.5 | 1 | 0.3 | 0.4 | - | - | 0.3 | 1.2 |
| 40° | | 1.5 | 1 | - | 0.2 | 0.3 | - | - | 0.2 | 0.7 |

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 $\epsilon=0$ & 90° .

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 |

R1, class 3 as specified in Table 6 of this standard multiplied by the appropriate colour factor given in table 7

Table 7 - Colour factors for retroreflectors

| Colour | Colour factors of retroreflectors |
|--------|-----------------------------------|
| White | 1.0 |
| Yellow | 0.6 |
| Red | 0.2 |

Table 7: Specific Signing Combination Performance Declarations

| Signing Component | Product Name | Colors and Product Number | Declared Retroreflective Detail |
|---------------------------------|----------------|---------------------------------|---------------------------------|
| Native Sheeting | WR-6100 Series | WR-6100 White WR-6101 Yellow | Per Table 5/6 |
| Solvent Screen Ink [#] | Z/PVC Series | Red onto WR-6100 | Per Table 5/6 |

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