

Avery Dennison® W-2100
 Super Engineer Grade Reflective Sheeting
 Pre-Striped Barricade
 Pressure Sensitive Adhesive for Plastic

Data Bulletin # W-2100
 Issued: 05/01
 Updated: 05/02

Description:

Avery Dennison W-2100 Series Super Engineer Grade Series Reflective sheeting for barricades is a premium quality, enclosed lens retroreflective material. This reflective sheeting is designed specifically for use on most plastic surfaces used for traffic control devices. Meets all requirements for Type II retroreflective sheeting as set forth in ASTM D 4956.

Construction:

Face Film:	High gloss with 4" or 6" diagonal stripes
Adhesive	Permanent pressure sensitive (Class 1)
Liner:	White Coated Paper

Warranted Photometric Performance:

Type II values per ASTM D 4956. 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)^A:

Color	1		2		3		4		Luminance (Y%)	
	x	y	x	y	x	y	x	y	Min	Max
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	27	--
Orange	0.558	0.352	0.636	0.364	0.570	0.429	0.506	0.404	14	30

^AThe four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System measured with Standard Illuminant D65.

Other Specifications:

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



Avery Dennison® W-2100 continued...

Physical Properties:

Outdoor Durability	Avery Dennison W-2100 sheeting is warranted for 3 years when properly processed and applied.
Minimum Surface & Ambient Air Application Temperature	40°F (4°C) when applied with a squeeze roll applicator
Application Surface	Flat plastic surfaces only. High density polyethylene (HDPE) is preferred. Flame treating the plastic substrate prior to application is recommended. Always pretest your specific substrate prior to application. Note: Wet method of application is not recommended for Avery Dennison W-2100 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:	W-2100 meets all other requirements set forth in ASTM D 4956 including Shrinkage, Flexibility, Liner removal, Adhesion, Impact resistance, Specular gloss and Outdoor weathering.

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:

Instructional Bulletins:	
Sheeting Care & Handling	#8.00
Substrate Requirements	#8.01
Application Techniques PS Sheeting	#8.10
Printing	Not designed for Printing Applications

Stripe Patterns:	
W-2142	4 inch left, 45° diagonal stripes
W-2143	4 inch right, 45° diagonal stripes
W-2144	6 inch left, 45° diagonal stripes
W-2145	6 inch right, 45° diagonal stripes

Avery Dennison® W-2100 continued...

Warranty:

WARRANTY: All statements, technical information and recommendations about Avery Dennison products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that Purchaser has independently determined the suitability of such products for its purposes. Avery Dennison products are warranted to be free from defects in material and workmanship for either one year (or the period stated on the specific product information literature in effect at time of delivery, if longer) from date of shipment if said product is properly stored and applied. It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited to repair or replacement of defective product without charge at Avery Dennison's plant or at the location of product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the product.

Avery Dennison's liability for defective products shall not exceed the purchase price paid therefore by Purchaser and in no event shall Avery Dennison be responsible for any incidental or consequential damages whether foreseeable or not, caused by defects in such product, whether such damage occurs or is discovered before or after replacement or credit, and whether or not such damage is caused by Avery Dennison's negligence.

NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, OR OTHERWISE (EXCEPT AS TO TITLE), OTHER THAN THOSE EXPRESSLY SET FORTH ABOVE WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, SHALL APPLY TO PRODUCTS SOLD BY AVERY DENNISON. AVERY DENNISON SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER SUCH WARRANTIES. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

Avery Dennison , 6565 W. Howard, Niles, IL 60714, USA, 1-800-327-5917, www.reflectives.averydennison.com