

**Avery Dennison® WU-6014
Fluorescent Orange
Flexible Roll-Up Sign Sheeting
Workzone Signage Material**

Data Bulletin # WU-6014
Revised 06/2004

Description:

Avery Dennison® WU-6014 Fluorescent Orange Flexible Reflective Roll-Up Sign Sheeting is a high-quality, micro-prismatic retroreflective material. Its unique prismatic construction provides an extra high level of visibility during demanding traffic control situations. Meets applicable performance requirements for retroreflective roll-up sign materials as set forth in ASTM D-4956.

Construction:

The construction of WU-6014 is based on a flexible vinyl construction. WU-6014 is backed by a matte, flexible vinyl layer and does not contain an adhesive.

Physical Properties:

The following information on physical and chemical characteristics is based on tests believed to be reliable. The values are intended only as a source of information. They are given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of this material for his/her specific purpose. (Data represents averages and is not intended for use as a specification.)

Outdoor Durability	WU-6014 has a durability of 1 year when properly fabricated, stored and used for Roll-Up Sign workzone applications. (Please note, after 2-3 months of outdoor exposure, the color will fade to a non-fluorescent orange color.) WU-6014 complies with the outdoor durability standards of ASTM D-4956.
Service Temperature Range	-10°F to 135°F (-23°C to 57°C)
Typical Film Caliper	20 to 30 mils
Shelf Life	One year, when stored at the following temperature and conditions 68° - 77°F (20° - 25°C) and 50% ± 5% R.H.
Sign Mounting & Orientation	WU-6014 is an omni-directional product and does not contain a datum mark. It can be mounted at any orientation without a significant change in reflectivity.
Other Tests:	WU-6014 meets all other requirements set forth in ASTM D-4956 for Roll-Up Sign materials including Flexibility, Impact resistance, Specular gloss, and Outdoor weathering.

Approved screen printing inks:

Ink Supplier	Ink Series	Ink System	Instructional Bulletins
Nazdar	VF Series	1 Part Solvent	#8.02

Retroreflectivity:

Minimum Coefficient of Retroreflection (R_A) ($cd / lx / m^2$). Tested in accordance with ASTM D-4956.

Observation Angle	Entrance Angle	Fluorescent Orange
0.1°	-4°	375
	30°	100
0.2°	-4°	200
	30°	75
0.5°	-4°	90
	30	45

Colors & Specification Limits (Daytime):

Standard daylight (D65 light source) colors of fluorescent sheetings can be measured in accordance with ASTM E-1349 using 45/0 (or equivalent 0/45) geometries, CIE illuminant D65, and the 1931 CIE 2-degree standard observer. The initial daytime (D65 light source) color of WU-6014 shall conform to the requirements identified in the table below.

<i>Color</i>	1	1	2	2	3	3	4	4	<i>Luminance</i>
	x	y	x	y	x	y	x	y	<i>Min.(Y%)</i>
<i>Fluorescent Orange</i>	0.583	0.416	0.535	0.400	0.595	0.351	0.645	0.355	20

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

Conversion Information:

WU-6014 can be printed with many solvent-based screen ink systems. Those inks which are vinyl-based will typically provide the best results. The end-user should test each ink system prior to printing. For best results, wet a soft cloth with water and wipe the face of the sign before printing. Allow two minutes to dry.

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.

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WU-6014 is protected by the following US patents: 4,460,449; 4,633,567; 5,156,863; 4,486,363; 4,601,861; 5,213,872; 6,472,050; and other patents pending