

Avery Dennison® Omni-Brite™ S-9000C Series
Flexible Vinyl Sheeting
For Cone Collar Applications
Complies with ASTM D 4956, Types III and VI

Data Bulletin # S-9000C
 Revised 10/2003

Description:

Avery Dennison® Omni-Brite™ S-9000C Series flexible vinyl sheeting is a multi-layer, microprismatic retroreflective material. This visibility-enhancing material is designed for use in cone collars. Avery Dennison® Omni-Brite™ S-9000C Series features a unique micro-prismatic technology that increases daytime and nighttime visibility at all relevant angles. It is omni-directional sheeting, meaning that it maintains high reflectivity regardless of how the material is rotated. Avery Dennison® Omni-Brite™ S-9000C is suitable for conversion into cone collars compliant with ASTM D 4956, Type III and Type VI.

Physical Properties:

Durability:	Suitable for outdoor use on Construction Work Zone cones
Typical Film Caliper (without backing film)	14 to 16 mils

Colors and Product Codes

White	S-9000C
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Photometric Performance:

Avery Dennison® Omni-Brite™ S-9000C is suitable for conversion into cone collars compliant with ASTM D-4956, Type III and Type VI.

Minimum Coefficient of Retroreflection (R_A) ($cd/lx/m^2$)

Observation Angle	Entrance Angle	White
0.1°	-4	400
0.1°	30	180
0.2°	-4	250
0.2°	30	150
0.5°	-4	200
0.5°	30	65

Weathering:

After 12 months of accelerated outdoor weathering, the minimum coefficient of Retroreflection (R_A) ($cd/lx/m^2$) complies with outdoor weathering photometric requirements for Type III and Type VI per ASTM D 4956.

Minimum Coefficient of Retroreflection (R_A) ($cd/lx/m^2$)

Observation Angle	Entrance Angle	White
0.2°	-4	200
0.2°	30	120

Avery Dennison® S-9000C continued...

Color Specification:

Avery Dennison® Omni-Brite™ S-9000C Series sheeting will meet the color specifications for Types III and VI retroreflective sheeting as set forth in the ASTM D 4956. These values are shown below.

Color	Chromaticity Coordinates		Minimum Luminance Factor β Min	
	x	y	Min	Max
White	0.303	0.300	27	-
	0.368	0.366		
	0.340	0.393		
	0.274	0.329		

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

Conversion:

Avery Dennison® Omni-Brite™ S-9000C Series can be successfully converted through the use of standard RF (Radio Frequency) welding processing techniques.

Printing:

Due to its vinyl face, Avery Dennison® Omni-Brite™ S-9000C Series is screen printable. To ensure a successful print run, proper surface preparation of the film is necessary. It must be free from any dirt, oils or other substances. It is recommended that the ink system be tested prior to any jobs processed.

Size configurations available:

48" x 250'

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.

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Omni-Brite™ S-9000 Series 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; 5,310,436; other patents pending.

