



PRODUCT DATA BULLETIN

Product Data Bulletin: A3-R

Avery Graphics™ A3 Reflective 911

3-year **INTERMEDIATE** prismatic reflective film

Dated: 01/29/04

Description:

Avery Graphics™ A3 Reflective prismatic series is a conformable prismatic, retroreflective film designed to provide an extra high level of visibility for emergency vehicles and short term fleet graphics. This high quality film is designed to meet or exceed the applicable requirements of ASTM D-4956.

Application information can be found in the Avery Graphics Application Guide.

For surface preparation, converting and printing, and application and removal instructions, please refer to the Avery Graphics Instructional Bulletin.

Construction:

- Face Film: 13.0 mils high gloss, premium, retro-reflective film
- Adhesive: Removable with little or no heat up to 3 years leaving little or no residue
- Liner: Friction-coated, polyester release liner

Physical Properties:

The following information on physical and chemical characteristics is based upon tests believed to be reliable. The values are intended only as a source of information. They are given without guarantee and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of this material for their specific purpose. (Data represents averages and is not intended for use as a specification). Additional application references can be found in the Avery Graphics Application Guide.

- Outdoor durability: 3 years when properly processed and applied (vertical exposure, unprinted film)**
- Application surface contours: Flat, simple curves (not recommended for unpainted Stainless Steel applications).
NOTE: Wet method of application is not recommended on Avery Graphics A3 Reflective films. Use of wet method of application invalidates standard warranty on this product.
- Minimum surface and air application temperature: +55° F (13° C) when applied with a squeeze roll applicator.
- Service Temperature Range: -10° to 140° F (-12° to 60° C) (Reasonable range of temperatures which would be expected under normal environmental time and temperature conditions)
- Typical Chemical Resistance: Resistant to most mild acids, alkalis and salt solutions. See instructional bulletin for recommendations on cleaning.
- Shelf life: One year when stored at the following temperatures and humidity conditions: 68°-77° F (20° - 25° C) and 50+/-5% Relative Humidity

- Typical Reflectivity Values

	Typical	Minimum
Color	-4.2°	
White	700	400
Yellow	450	80
Blue	45	45
Red	140	25
- Reflectivity: Meets ASTM D-4956.
- Gloss: NA
- Tensile at Yield: NA
- Elongation: NA
- Dimensional Stability: Less than 0.03 in. (0.8 mm) shrinkage (1000 Hrs. Atlas Twin Arc Weatherometer, EH)

Typical Converting Methods:

CUTTING

Computer Sign Cutting: yes

Angle of Blade: 60°

Minimum letter Height Recommended: 2 inches

PRINTING

Thermal Transfer Printing: yes

Ink Jet Printing: no

E-Stat printing: no

Screen Printing: yes

Exceptions:

Durability Exceptions: none

Pigmented Adhesive Exceptions: none

** Some color fade may occur in severe environmental areas such as, Florida, Arizona, Nevada, New Mexico, Utah, Southwest Texas and Southern California. Durability statement does not apply outside of the contiguous 48 states as testing has not been done in those regions.

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.