Avery Dennison® 900 Fluorescent Films

Features

- Bright colours that provide excellent conspicuity and high visibility
- Excellent adhesion to a wide variety of substrates
- Excellent dimensional stability
- Complies with the European specifications for Rear Vehicle markings, advance Warning Triangles and Slow Moving Vehicle Markings
- Available in 2 colours – Yellow, Red

Description

Film: 110 micron double layer fluorescent cast vinyl

Adhesive: Permanent acrylic

Backing: : One side coated bleached Kraft paper, 140gsm

Outdoor life:
Red – up to 18 months
Yellow – up to 6 months

Colours: 2 standard

Conversion

- ☑ **Flat bed cutters**
- ☑ **Friction fed cutters**
- ☑ **Die cutting**
- ☐ Thermal transfer
- ☐ Screen printing
- ☐ Cold overlaminating
- ☐ Estat printing
- ☐ Water based inkjet
- ☐ Solvent inkjet
- ☐ UV Cured inkjet

Common Applications

- Cars and vans
- Emergency vehicles
- Marine craft
- Window graphics
- Flat sided trucks
- Buses
- Trains and light rail
- Warning labels

Uses

Avery 900 Cast Fluorescent is suitable for traffic, conspicuity, safety and general high visibility functional and promotional applications where extended outdoor durability is required.

Physical characteristics

General

Caliper, facefilm	ISO 534	110 micron
Dimensional stability	DIN 30646	0.3 mm max
Adhesion, initial	FINAT FTM-1, stainless steel	600 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	800 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability **	Vertical exposure	
	6203 Red	up to 18 moths
	6202 Yellow	up to 3-6 months

Thermal

Application temperature		Minimum: + 10°C
Temperature range		- 30°C to + 100°C

Chemical

Humidity resistance	120 hours exposure	No effect
Water resistance	120 hours immersion time	No effect
Gasoline resistance	2 hours immersion	
	Appearance	No effect
	Adhesion	No effect
	Colour	No effect
Chemical Solvent Resistance		
	Applied to aluminium and exposed to oils, grease, aliphatic solvents, motor oils, heptane, kerosene and JP-4 fuel	No effect

Important

Information on physical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of any material for their specific use.

All technical data is subject to change without prior notice.

Warranty

Avery Dennison® materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give guarantee, warranty, or make any representation contrary to the foregoing.

All Avery Dennison® materials are sold subject to the above conditions, being part of our
standard conditions of sale, a copy of which is available on request.

****Durability**

Durability is based on exposure conditions in the normal middle European and central North American regions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing north in the southern hemisphere or south in the northern hemisphere; in areas of long high temperature exposure such as northern Australia; in industrially polluted areas or high altitudes, exterior performance will be decreased. Please refer to Avery Dennison Instructional Bulletin 1.3 for definitions and reductions based on the 'Zone System'.

***Information unavailable at time of printing.

Test Methods

Dimensional stability:
Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°C, after which the shrinkage is measured.

Adhesion:
(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

Flammability:
A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:
A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:
All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Corrosion Resistance:
A specimen applied to aluminium is exposed to saline mist (5% salt) at 35ºC. After exposure, the film is removed and the panel is examined for traces of corrosion.