Technical specification sheet

Ball & Doggett

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Product: Avery Dennison MPI 3709 PWF



Category: Sign, Display & Digital - Solvent, Eco Solvent, Latex

Technical specifications:

Features

- Perforated film with white print face, black on adhesive side for one way vision graphics
- Very good printability on Eco solvent, Solvent and Latex inkjet
- printers 1.5 mm holes with 40% open area
- · Good outdoor durability
- · Good Dimensional stability
- · Good adhesion level on glass substrates
- · Removable with heat and/or chemicals

Description



Film: 150 micron white/ black perforated monomeric calendered vinyl



Adhesive: Removable acrylic



Liner: One side PE coated non-perforated kraft paper, 168g/m²



Outdoor Life**: Up to 1 year (unprinted)

Application surface: Flat, simple curves

Conversion*

O	Flat bed cutters	\Box	Cold overlaminating
	Friction fed		Electrostatic printing
	cutters Die	(=)	Latex inkjet
	cutting Thermal		Eco solvent inkjet
\Box	transfer Screen		Solvent inkjet
	printing Offset	\Box	UV curable inkjet

printing
*Always test with your combination of printer and inks prior to commercial use.
Note: For solvent or eco solvent printed graphics, it is recommended
to cure the ink for 5 days before applying an overlaminate.

Common Applications

- · Window graphics
- · Vehicle & bus window
- · graphics Building wraps
- · Retail & commercial
- · signage Bus shelters
- POP displays
- Other transparent surfaces

Uses

Avery Dennison MPI 3709 is a digital printable white/black perforated calendered vinyl film for use in a wide range of promotional window graphics applications where one way vision. removability and value for money is required. Used on commercial vehicles* for continuous. uninterrupted vehicle graphics covering painted and window areas. and large size graphics on building windows that still provide sufficient interior daylight and exterior viewing capabilities.

*Not recommended for use on private passenger vehicles.



Physical characteristics

General

Durability **	Vertical exposure	up to 1 year unprinted
Shelf life	Stored at 22 ° C/50-55 % RH	1 year
Removability^	Smooth OEM painted surfaces	up to 1 year
Adhesion, ultimate, unperforated	FINAT FTM-1, glass	320 N/m
Adhesion, ultimate, perforated	FINAT FTM-1, glass	120 N/m
Dimensional stability	DIN 30646	0.5 mm max
Perforation diameter		1.5mm
Open area		40% (approx.)
Caliper, face film & adhesive	ISO 534	***
Caliper, face film	ISO 534	150 micron

[^] Not when applied to: Nitrocellulose paint, ABS, Polystyrene, screen printing inks (fresh), certain types of PVC, Polycarbonate

Temperature Range

Minimum Application temperature	+10°C
Temperature range	- 20°C to + 65°C

Chemical

Avery Dennison perforated window films are resistant to water, humidity, solvents, most mild acids, alkalies and salt. Due to the open structure of the film, exposure must be limited to an absolute minimum. To avoid damage to the printed image, Avery Dennison recommend that prints be protected with an appropriate overlaminate. Overlaminated Avery Dennison Perforated Window Film has the same resistance to chemical substances as the overlaminate film.

Avery Dennison Perforated Window Films are also resistant to most commonly used cleaning detergents. Thorough rinsing and following the recommended use and exposure to the cleaning detergent is advised. Before use, always test to ensure that cleaning detergent will not damage unlaminated prints.

Note:

Materials have to be properly dried and cured before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

Dimensional stability:

Test Methods

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 ℃, after which the shrinkage is measured.

(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.

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 quarantee, 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.

*Expected Durability

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within the Asia Pacific region, in outdoor vertical exposure conditions.

The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films. In case of films used in areas of high temperatures or humidity, high altitudes and industrially polluted areas the performance will be further reduced.

Expected Durability and Warranted Period Definitions

Expected durability is the expected period of time defined in the product data sheet, the product should, but is not warranted to, perform satisfactorily when applied in vertical exposure conditions as defined in Instructional Bulletin 1.30. The warranted period as defined in the appropriate ICS Performance Guarantee Bulletin, is the maximum period of time Avery Dennison will warrant the finished products performance in accordance with ICS Performance Guarantee
Terms and Conditions 1.0, provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines

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 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.