Technical specification sheet

Ball & Doggett

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Avery Dennison[®] MPI 2529 PWF

Perforated Window Film 50/50 Perforation

Features:

- High strength perforated film with gloss white print face, black on adhesive side for one way vision graphics
- Very good printability on eco-solvent, solvent and latex inkjet printers
- 2 mm holes with 50% open perforated area
- Very good outdoor durability and dimensional stability
- Very good adhesion on glass and transparent substrates
- One side PE coated StaFlat liner for excellent printing and handling
- Removable with heat up to 1 year with little or no adhesive residue

Conversion⁺:

- Flatbed cutters
- Friction fed cutters
- Die cutting
- O Thermal transfer
- Screen printing
- Offset printing

- Cold overlaminating
- Electrostatic printing
- Iatex inkjet
- Eco solvent inkjet
- Solvent inkjet
- UV curable inkjet
- ⁺ 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 or installing the material.

Application:

For unlaminated external use where material is exposed to rain and contamination. The use of an optically clear, compatible overlaminate is recommend to prevent the holes from filling with water and/or dirt to ensure clear vision. Avery Dennison DOL 1060Z Gloss is recommended for 100% flat windows and Avery Dennison DOL 6460 High Gloss can be used for either flat or slightly curved windows.

Uses:

Avery Dennison MPI 2529 PWF is a digital printable gloss 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.



Description:



Film: 180 micron gloss white/black perforated polymeric calendered vinyl

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Adhesive: Removable acrylic

Removability: Up to 1 year



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



Outdoor life:** Up to 3 years (unprinted)

Application surface: Flat,
simple curves

Common Applications:

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

Avery Dennison[®] MPI 2529 PWF

General

Calliper, face film	ISO 534	180 micron
Calliper, face film & adhesive	ISO 534	208 micron
Dimensional stability	FINAT TM14	1 mm max(MD), 0.2mm(CD)
Open Area		50%
Perforation Diameter		2mm
Elongation	DIN EN ISO 527 (Unprinted film)	Min 50% (MD / CD)
Tensile	DIN EN ISO 527 (Unprinted film)	Min 5 MPa (MD / CD)
Adhesion, 20 mins	FINAT FTM-1, Stainless steel	160 N/m
Adhesion, 24 hrs	FINAT FTM-1, Stainless steel	240 N/m
Removability ^^	Smooth OEM painted surfaces	Up to 1 year
Flammability		Self extinguishing
Removability^^		Up to 1 year
Shelf life	Stored at 22° C/50-55 % RH	2 years
Expected Durability **	Vertical exposure ^	Up to 3 years (unprinted)
	^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information	

specific printer and ink combination for further information ^^ Not removable when applied to nitrocellulose paints, fresh screen print inks, ABS, polystyrene & certain types of PVC

Thermal

Application temperature		Minimum: + 10°C
Temperature range		- 20°C to +65°C
Chemical		
Humidity resistance	120 hours exposure	No effect
Corrosion resistance	120 hours exposure	No contribution to corrosion
Water resistance	48 hour immersion	No effect
Chemical resistance	Mild acids	No effect
	Mild alkalis	No effect
Solvent resistance	Applied to aluminium	No effect exposed to: Oils, greases, aliphatic solvents, motor oils, heptanes, kerosene, JP-4 fuel

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.

Testing 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.

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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.

**Expected Durability

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within Zone 1 of the Avery Dennison zone system, 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

Varianced 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 quidelines.

+Compatible with most printer and ink combinations. Test prior to use.

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.



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