

Technical specification sheet

Ball & Doggett

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Product: Avery Dennison® DOL 3100 Matte

Matte Clear Promotional Overlamine



Graphics
Solutions

Category: Sign, Display & Digital

Features

- Good UV protection
- Improves inkjet outdoor image durability up to 1 year
- Improves solvent inkjet outdoor image durability up to 2 years
- Good abrasion resistance
- Excellent adhesion to graphic materials
- Excellent transparency
- Matte finish for low-glare applications
- Excellent value for money
- Tested to AS/NZS 4586:2004 Standard slip resistance classification of new pedestrian surfaces

Description



Film: 80 micron matte clear
UV stable monomeric
calendered vinyl overlaminate



Adhesive: Permanent acrylic



Backing: One side coated
Kraft paper, 125gsm



Outdoor life: Up to 2 years

Conversion*

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

Common Applications

- Exhibitions
- Indoor advertising
- Point of purchase
- Windows
- Real estate signs
- Outdoor advertising

Standards

AS/NZS 4586:2004 Standard slip resistance classification of new pedestrian surfaces: Appendix A, B, D, Tri Classification: X,F, R9
In order to interpret the classifications, please refer to Standards Australia Handbook 197, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, which recommends minimum classifications for a wide variety of locations.

Applications

For processing tips and reference guides please refer to Avery Dennison Instructional Bulletins:

- 1.18 Application and Maintenance of Avery Dennison® Floor Graphics
- 4.06 Processing Tips for Avery Dennison DOL Films

Uses

Avery Dennison DOL 3100 is a matte monomeric calendered overlaminate designed for use as a protective overlaminating film for digitally printed images suitable for indoor or short term outdoor images on flat surfaces.



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Physical characteristics

General

Calliper, facefilm	ISO 534	80 micron
Calliper, facefilm & adhesive	ISO 534	110 micron
Dimensional stability		0.3 mm max
Adhesion, initial	ASTM 1000, stainless steel	550 N/m
Adhesion, ultimate	ASTM 1000, stainless steel	900 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability **	Vertical exposure	Up to 2 years
Slip resistance	AS/NZS 4586:2004	Appendix A, B, D, Tri Classification: X,F,R9

Thermal

Lamination temperature	See relevant technical bulletins
Service temperature range	- 40°C to + 80°C

Chemical

Resistant to most petroleum based oils, greases, and aliphatic solvents

Resistant to mild acids, alkalis and salts

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'.

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

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

