

PRODUCT DATA SHEET

Avery Dennison® DOL 3000 Series

issued: 06/2014

Introduction

Avery Dennison DOL 3000 Series is a monomeric plasticized, calendered laminate film. Avery Dennison DOL 3000 Series has been specifically designed as a protective overlaminating film for digitally printed images, followed by application on flat surfaces.

Description

Film : 80 micron flexible, transparent, calendered vinyl
DOL 3000 Gloss Clear
DOL 3100 Matt Clear
DOL 3200 Lustre Clear

Adhesive : permanent clear pressure sensitive, acrylic based

Backing paper : one side coated bleached kraft paper, 87 g/m²

Conversion

For processing tips and reference guides please refer to Technical Bulletins:
- 5.3 Recommended combinations of Avery Dennison overlaminates and Avery Dennison Digital Print Media.
- 5.4 Processing tips for Avery Dennison DOL films.

Uses

Suitable for lamination of photographic papers and digital printed substrates such as paper, polyester and vinyl, requiring a matte finish, followed by application on flat surfaces such as windows.
Suitable for indoor (preferable) and short life outdoor use (up to 2 years).

Features

- Adds attractive uniform finish to a print.
- Protects against UV radiation and abrasion.
- Especially designed for inkjet printed images

Note The durability of a printed image always depends on the toner/ink, film, used overlaminate, processing and exposure conditions.



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Physical properties

| Features | Test method ¹ | Results |
|------------------------------|------------------------------|------------|
| Caliper, facefilm | ISO 534 | 80 micron |
| Caliper, facefilm + adhesive | ISO 534 | 110 micron |
| Gloss | | |
| DOL 3000 Gloss Clear | ISO 2813, 20° | 70 % |
| DOL 3100 Matt Clear | ISO 2813, 85° | 10 % |
| DOL 3200 Lustre | ISO 2813, 85° | 75 % |
| Adhesion, initial | FINAT FTM-1, stainless steel | 550 N/m |
| Adhesion, ultimate | FINAT FTM-1, stainless steel | 900 N/m |
| Shelf life | Stored at 22° C/50-55 % RH | 2 years |
| Durability, unprinted | Vertical exposure | 2 years |

Temperature range

| Features | Results |
|----------------------------------|------------------------|
| Minimum application temperature: | See Technical Bulletin |
| Service temperature: | - 40 °C to + 80 °C |

Chemical properties

| Features | Results |
|---------------------|--|
| Chemical resistance | Resistant to most petroleum based oils, greases and aliphatic solvents. Resistant to mild acids, alkalis, salts. |

Prolonged immersion in gasoline and similar fluids is not recommended.

NOTE: Materials have to be properly dried before further processing, for example laminating, varnishing or application. The residual solvents could change the products' specific features.

For good print and converting result we recommend to let the rolls acclimatize in the print/lamination room at least 24h. before printing or converting. Too much temperature or humidity deviation between material and room climate can cause layflatness and/or printability issues.

Generally, constant material storage conditions of ideally 20°C (+/-2°C) /50% RH (+/- 5%), without too big climate deviations, will support a more robust and stable printing/converting process. For further details, please refer to TB 1.11.

Important

Information on physical and chemical 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 this material to their specific use. All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of these Conditions, the English version shall be controlling.

Warranty

Avery Dennison® branded 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 any guarantee, warranty, or make any representation contrary to the foregoing. All Avery Dennison® branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

1) Test methods

More information about our test methods can be found on our website.

2) Durability

The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.