

PRODUCT DATA SHEET

Avery Dennison® DOL 3000 series

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Introduction

Avery Dennison DOL 3000 series are monomeric calendered laminates that have been designed as short-term protective overlaminating films for digitally printed images on flat applications.

Description

Film : 80 micron flexible, transparent, calendered vinyl
DOL 3460 Gloss Clear
DOL 3470 Lustre Clear
DOL 3480 Matt Clear

Adhesive : permanent, acrylic based

Backing paper : one side coated bleached kraft paper, 95 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

Protective over laminating films for digitally printed images on flat substrates for promotional short-term indoor and outdoor applications.

Features

- Adds attractive uniform finish to a print;
- Enhances colors of image;
- Protects against UV radiation and abrasion;
- Improves durability of image (up to 2 years)

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



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PRODUCT CHARACTERISTICS

Avery Dennison® DOL 3000 series

Physical properties

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	80 micron
Caliper, facefilm + adhesive	ISO 534	100 micron
Gloss		
DOL 3460 Gloss	ISO 2813, 85 ⁰	70 %
DOL 3470 Lustre	ISO 2813, 85 ⁰	75 %
DOL 3480 Matt	ISO 2813, 85 ⁰	10 %
Adhesion, initial	FINAT FTM-1, stainless steel	475 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	660 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

All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes.

All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>

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.



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