

PRODUCT DATA SHEET

Avery Dennison® 4100 Ultra Clear Polyester

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Introduction

Avery Dennison DOL 4100 is a super gloss overlaminating film for special use on Avery Dennison perforated window films to guarantee optimal adhesion performance of the perforated window film.

Description

Film: premium quality 36 micron super gloss transparent polyester.
Adhesive: permanent transparent, acrylic based.
Backing: transparent PET, 36 microns

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

When laminating over printed images, the used inks/toners should be thoroughly dry and free of (silicone) additives that might reduce/prevent proper adhesion of the overlaminate. Avery Dennison DOL 4100 is compatible with both screen printed and digitally printed images. Avery Dennison DOL 4100 is only recommended for 100% flat windows.

Features

- High clarity.
- High abrasion resistance.
- Excellent dimensional stability.
- Good resistance to chemicals and solvents.
- Excellent adhesion.
- Excellent resistance to automatic washing cycles.

Note

It is strongly recommended for outdoor use to always overlaminate Avery Dennison perforated window films with Avery Dennison DOL 4100. The durability of a printed image always depends on the toner/ink, film, used overlaminate and processing and exposure conditions.

PRODUCT CHARACTERISTICS Avery Dennison® 4100 Ultra Clear Polyester

Physical properties

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	36 micron
Caliper, facefilm + adhesive	ISO 534	60 micron
Dimensional stability	FINAT FTM 14	< 0.5 mm
Adhesion, initial	FINAT FTM-1, stainless steel	280 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	400 N/m
Shelf life	Stored at 23°C/50-55% RH	1 year
Durability ²	Vertical exposure	2 years

Temperature range

Features	Results
Application temperature:	+15°C to +30°C
Service temperature:	-40°C to +100°C

Chemical properties

Features	Results
Chemical resistance:	Resistant to most mild acids, alkalis and salt solutions.

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 and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. 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 this document, the English version shall be prevailing and leading.

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1) Test methods

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

2) Durability



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The durability is based on middle European exposure conditions, for non-static applications (vehicles). Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of static signs facing south, west, or southwest, 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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