

PRODUCT DATA SHEET

Avery Dennison® SignFlex™ DOL

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Introduction

Avery Dennison SignFlex™ DOL cast overlaminate is premium quality, ultra-flexible films designed to be used as protective overlaminate film for digitally printed images. The films offer exceptional value for applications requiring enhanced colours and durability. Avery Dennison SignFlex™ DOL overlaminate film has specially been developed to be used in combination with Printed SignFlex™ White serie.

Description

Film : premium quality 30 micron clear cast vinyl, gloss finish
Adhesive : permanent, acrylic based
Backing paper : one side coated white kraft paper, 140 g/m2

Conversion

For processing tips and reference guides please refer to Technical Bulletins: 3.7 Avery Dennison SignFlex™ - Recommendations on converting and application.

Uses

Protective overlaminate film can be used in combination with Avery Dennison SignFlex™ White printed with Latex, UV, solvent or Eco-solvent inks. The main application area is flexible substrates like tarpaulins.

Features

- Premium quality, ultra-flexible, cast vinyl, gloss aspect to enhance the image colours
- Protects against UV radiation and abrasion
- Excellent conformability to tarpaulin substrates in combination with SignFlex™ White media
- 5 years durability warranty when used together with printed SignFlex™ White

Note The durability of a printed image always depends on the toner/ink, film, type of overlaminate, processing and exposure conditions. The film's surface can show alterations in matting due to contact pressure or other external influences. Please note that increased roller temperatures in combination with higher winding tension could lead to unwanted elongation of the film. Winding tension should therefore be carefully monitored and kept at an appropriate level.



Graphics
Solutions

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PRODUCT CHARACTERISTICS

Avery Dennison® SignFlex™ DOL

Physical properties

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	30 micron
Caliper, facefilm + adhesive	ISO 534	60 micron
Gloss	ISO 2813, 20°	> 60%
Dimensional stability	FTM14	0,20 mm. max
Elongation at break	DIN 53445	>150%
Adhesion, initial	FINAT FTM-1, stainless steel	200 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	300 N/m
Flammability		self-extinguishing
Accelerated ageing	SAE J 1960, 2000h exposure	No negative impact on film performance
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability ²	Vertical exposure	5 years

Temperature range	Results
Application temperature	Minimum: +10° C
Temperature range	-40° to + 60° C

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 are 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 the 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. Printed materials should be protected by the Signflex™ DOL overlamine. For more detailed informations please refer to the Instructional Bulletin 1.30 EU Durability of Avery Dennison Graphics Films.