

PRODUCT DATA SHEET

Avery Dennison® Signflex

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Introduction

Avery Dennison SignFlex is especially developed to adhere to flexible substrates like tarpaulins. The adhesive is designed to have a permanent ultimate adhesion onto the substrate..

Signflex comes in 1.23m width and is available in 6 different colors. The films are printable and can be protected with a suitable Signflex DOL Overlamine.

Description

Facefilm: 75 micron premium cast vinyl

Adhesive: permanent on plasticised PVC based tarpaulins only

Backing paper: one side coated white kraft paper, 140 g/m²

Conversion

Avery Dennison SignFlex offers excellent weeding and cutting performance on a wide range of computer signmaking equipment. Avery Dennison SignFlex White can be printed with Latex, UV or Eco-solvent inks; an overlamine is recommended to protect the print.

Features

- Six high gloss standard colours are available to mark trailer curtains and banners.
- Exceptional flexibility
- Outstanding durability and outdoor performance.
- Excellent layflatness and stability during cutting and weeding
- High adhesion to a wide variety of plasticised PVC substrates.
- Easy application, no drying time required compared to other application methods
- Wet application method allows for repositioning during the first minutes of application.
- Excellent dimensional stability during use and application.

Recommendations for use

Avery Dennison SignFlex is especially designed for lettering, decorations and graphics on tarpaulin and banner material

Wet application allows for a repositioning of the decals at the start of the application.

Avery Dennison Application Paper and Tapes can be used to transfer the plotted material evenly onto the desired substrate.

For further recommendations on converting and application please check T.B 3.7



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Physical properties

Features

| Features | Test method ¹ | Results |
|------------------------------|------------------------------|--|
| Caliper, facefilm | ISO 534 | 75 micron |
| Caliper, facefilm + adhesive | ISO 534 | 125 micron |
| Gloss | ISO 2813, 20° | > 50% |
| Dimensional stability | FTM14 | 0,20 mm. max |
| Elongation at break | DIN 53445 | >130% |
| Adhesion, initial | FINAT FTM-1, stainless steel | 75 N/m |
| Adhesion, ultimate | FINAT FTM-1, stainless steel | 145 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 |
| All Colours unprinted | | |

Temperature range

Features

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

Chemical resistance

Features

| Features | Test method ¹ | Results |
|----------------------|---------------------------------|-----------|
| Humidity resistance | 200 hours exposure | No effect |
| Saltspray resistance | 120 hours exposure to corrosion | No effect |
| Water resistance | 48 hours immersion | No effect |

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.

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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 overlaminates. For more detailed informations please refer to the Instructional Bulletin 1.30 EU Durability of Avery Dennison Graphics Films.