

PRODUCT DATA SHEET

Avery Dennison® 5300 Blockout Films

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Introduction

Avery Dennison® 5300 Blockout Films are premium quality cast films that are especially designed for graphics involving internally illuminated light box applications. Avery Dennison® 5300 Blockout Films are designed to provide complete light blocking characteristics. Avery Dennison® 5301 Blockout Film exhibits a uniformly lustre white finish and is uniformly black on the adhesive side. Avery Dennison® 5303 Blockout Film has a black lustre finish and is uniformly white on the adhesive side.

Conversion

Avery Dennison® 5300 Blockout Films offer excellent conversion using computerised sign cutting, hand cutting and die cutting.

Recommendations

- » Graphics for internally illuminated signs and canopies on both rigid and flexible substrates
- » Avery Dennison® 5300 Blockout Films are generally applied as second surface substrate in combination with Avery Dennison® 4500TF and Avery Dennison® 5500QM Translucent Films

Custom colours: Colormatching service is offered, however some limitations apply.

Features

- » Total light block control, less than 0,001% light transmission
- » Lustre finish on face of the film, matching with other Avery Dennison® backlit sign products
- » Provides a very good and stable layflatness during handling and conversion
- » Offers the choice of a white or a black face film
- » Excellent adhesion to a wide variety of substrates
- » Superior dimensional stability
- » Excellent performance as second surface media
- » Excellent performance for flat and slightly curved designs



Face Film

100 micron premium, cast vinyl film



Adhesive

permanent, clear, acrylic based



Backing

polycoated kraft paper, 135 g/m²



Durability

5 years



Shelf Life

2 years

Physical Characteristics

| Features | Test method ¹ | Results |
|--|----------------------------|---|
| Product | | |
| Caliper, facefilm (micron) | ISO 534 | 100 micron |
| Caliper, facefilm + adhesive (micron) | ISO 534 | 125 micron |
| Light Transmission (%) | | <0.001 % |
| Dimensional stability (mm max.) | FINAT FTM 14 | 0.4 mm max. |
| Shelf life (years) | Stored at 22° C/50-55 % RH | 2 years |
| Durability ² (years) | Vertical exposure | 5 years |
| Flammability | | self-extinguish |
| Accelerated ageing | SAE J 1960, 1500h exposure | No negative impact |
| Adhesive | | |
| Elongation (%) | DIN 53455 | 100% min |
| Adhesion, initial (N/m) | FINAT FTM-1, glass | 500 N/m |
| | PMMA | 450 N/m |
| | Polycarbonate | 375 N/m |
| | Ultralon IV | 400 N/m |
| | FINAT FTM-1, glass | 580 N/m |
| Adhesion, after 24 hours (N/m) | PMMA | 550 N/m |
| | Polycarbonate | 560 N/m |
| | Ultralon IV | 400 N/m |
| Temperature range | | |
| Application temperature (Minimum: °C) | | Minimum: +10° C |
| Service temperature (°C to +°C) | | -40° to +80° C |
| Chemical properties³ | | |
| Chemical resistance | Mild acids | No effect |
| Solvent resistance | Mild alkalis and salts | No effect |
| Solvent resistance | Applied to aluminium | No effect exposed to: oils, greases, aliphatic solvents, motor oils, heptane, kerosene and JP-4 fuel. |

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.

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.

3) Prolonged immersion in gasoline and similar fluids is not recommended.

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