PRODUCT DATA SHEET

Avery Dennison® 5600 LD Translucent Film

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Revision: 4

Introduction

Avery Dennison® 5600 LD Translucent Film series have been especially designed to meet the challenges of LED illuminated signage. The range provides a simple single film solution - eliminating LED “hot spots” without the cost and complexity of additional diffuser film or pigmented acrylic sheet.
Avery Dennison 5600 LD Translucent Film series offer excellent conversion using computerised sign cutting on flatbed plotters and friction controlled plotters. In its design, the properties for excellent performance in thermoforming processes are built-in.

Description

Facefilm:	70 micron, translucent cast vinyl film
Adhesive:	Permanent, transparent acrylic based
Backing paper:	75 micron PET liner

Features

- Excellent colour fastness and durability up to 10 years
- Single layer concept with high light transmission.
- Excellent colour uniformity in reflected and transmitted light
- Excellent adhesion to a wide variety of substrates
- Superior dimensional stability
- Suitable for thermoforming
- Color matching, minimum order of two rolls

Recommendations for use

- Graphics for LED internally illuminated signs and canopies
- Applications on both rigid and flexible substrates
- Window graphics and retail signage using LED lighting technology

Avery Dennison® Colour Matching

A fast colour matching service is offered for projects where specific colour needs cannot be matched from the standard colour range. The minimum order quantity for this service is two rolls.

PRODUCT CHARACTERISTICS Avery Dennison® 5600 LD Translucent Film

Physical properties

Features	Test method[1]	Results
Caliper, facefilm colours	ISO 534	70 micron
Caliper, facefilm black & white	ISO 534	50 micron
Caliper, facefilm + adhesive	ISO 534	100 micron (B&W 80 micron)
Tensile strength	ISO 2813, 20º	1.0 kN/m
Elongation	DIN 53455	75%
Gloss	ISO 2813, 20°	25 GU
Dimensional stability	FINAT FTM 14	0.2 mm. max
Adhesion, initial	FINAT FTM-1, stainless steel	350 N/m
Adhesion, ultimate	FINAT FTM-1:	
	PMMA	500 N/m
	Glass	500 N/m
	Stainless steel	480 N/m
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability [2]	Vertical exposure only	
Black & white	ISO 4892-2	10 years
Colours		8 years

Temperature range

Features		Results
Application temperature Minimum		Minimum: +10°C
Service temperature		-50° to +110° C
Heat resistance	3 weeks exposure at 80º C	No significant colour change

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. This product with often high contrasting film colours is generally used on larger viewing distances. Nearby observation might show randomly some cloudy effect in the film surface, which will not interfere in the end-use of the product. 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

Avery Dennison® branded materials are manufactured under careful quality control and are warranted to be free from free from defects according to the specifications in the product data sheet. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give any guarantee, warranty, or make any representation contrary to the foregoing.

All Avery Dennison® branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

1) Test methods

More information about our test methods can be found on our website: www.graphics.averydennison.eu

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.