

# PRODUCT DATA SHEET

## Avery Dennison® 5000 Flexible Substrate

issued: 11/2014

Rev. 1

### Introduction

Avery Dennison 5000 Flexible Substrate is a unique product, that can be decorated with Avery Dennison 5500 QM, a translucent pressure sensitive film, which when applied to Avery Dennison 5000 Flexible Substrate, provides excellent performance for external backlit signs, awnings or billboards.

### Construction

Avery Dennison 5000 Flexible Substrate is a flexible substrate with a high-count 1000 denier polyester fabric. The coating contains the finest additives for prohibiting microbial growth. The outer top coating on the face (smooth) side is designed to:

- Block any possible plasticizer migration
- Increase UV resistance by filtering and reflecting UV rays
- Be impervious to solvents, graffiti, airborne pollution, bird dropping and leaf stains
- Create a surface that allows self-adhesive films to bond and adhere without bubbling and peeling
- Lower surface tension so rainwater washes clean

### Compatibility

Avery Dennison 5000 Flexible Substrate is fully compatible with Avery Dennison 5500 QM and 5600 LD Translucent Film series.

Screen inks, spray paints and computerized print methods are in general fully compatible with Avery Dennison 5000 Flexible Substrate, but the decoration medium should be tested by the converter or reviewed with Avery Dennison technical support, prior to its decoration process and final use.

### Durability

The expected life span of Avery Dennison 5000 Flexible Substrate product is 10 years under vertical exposure.

### Features

- Durability: 10 years
- Pure white, translucent color which completely diffuses fabric weave
- Decoration with Avery Dennison 5500 QM Translucent Films gives excellent visual and durability results
- Smoothness that can shed airborne dirt and grime
- Very wide seamless widths, so that seams and shadows do not interfere with the sign design
- Self cleaning properties preventing airborne dirt and pollutants adherence
- Resistance to fading, discoloration, cracking and weathering
- Resistance to mildew, fungus and wicking

### Recommendations for use

- Backlit signs
- Awnings
- Billboards

### Avery Dennison Flexible Substrate

- Should be cleaned in case of stains with the use of IPA (Isopropyl alcohol 100%) only. Customers should test the solvent first prior to use on the material
- Is made with a polyester fabric. It is recommended to stretch the face in the sign frame in the length direction of the fabric first and then complete tensioning in the width direction or machine direction
- Can be heat-sealed
- Should never be folded, but always rolled up for storage or transport

## PRODUCT CHARACTERISTICS

## Avery Dennison® 5000 Flexible Substrate

### Physical properties

Features	Property	Units
Base fibre:	polyester (low shrink)	D-TEX
Base fibre:	1100 x 1000	Denier
Thread count:	9 x 9	cm <sup>2</sup>
Total weight:	650	g/m <sup>2</sup>
Thickness:	500	micron
Tensile strength:	150 x 150	kg/25mm
Tear resistance (warp / fill):	300 x 400	N
Light transmission:	24 +/- 2	%
Mildew resistance:	excellent, no growth	
Weatherability:	excellent, QUV >3000	hrs
Flame resistance:		
- flame out	2	sec
- max.	3,5	char
DIN 4102, part 1	B1	-
Cold resistance:	-30	°C
Heat resistance:	+70	°C
Wicking resistance:	Anti-wick	warp
	Slight-wick	fill
Elongation at break:	20 – 25	%

---

### 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.

### Warranty

Avery Dennison ®branded materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. 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 authorized 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.

More information can be found on our website: [www.graphics.averydennison.eu](http://www.graphics.averydennison.eu)