

# PRODUCT DATA SHEET

## Avery Dennison® 180 Solid Foil

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### Introduction

Avery Dennison 180 Solid Foil is a 50 micron thick self-adhesive foil, that is topcoated.

### Description

Facematerial: 50 micron matt chrome, topcoated aluminium foil

### Availability

<i>Backing</i> (one side coated kraft paper)	<i>Adhesive</i> ☞ ☞	Permanent
Standard		x

### Printing

**Offset-printed:** with UV-curing inks, suitable for films and  
**Screen-printed:** with conventional (i.e. solvent-based) and UV-curing inks.

Consult your printing ink supplier about suitable printing inks. All printing inks should be tested for suitability prior to use.

### Features

- High adhesion to a wide variety of substrates
- Excellent heat resistance
- Excellent adhesion values
- Attractive metallic appearance

### Uses

- Plain and embossed nameplates
- Decorative trim and labels
- Heat exposure applications
- Durable machine emblems and serial numbers
- Machinery reference labels and instructions

### General

Shelf life : 2 years stored at 20°C / 55% R.H.  
Total caliper (±10%) : 310 micron

For information regarding EHS regulation please visit our website under downloads "Technical bulletins "TB 7.8 Product Compliance Avery Dennison Promotional Screen" and for technical guidance "Technical

**Physical properties**

<b>Features</b>	<b>Test method<sup>1</sup></b>	<b>Results</b>
Caliper, facefilm	ISO 534	50 micron
Grammage, facefilm	ISO 536	138 g/m <sup>2</sup>
Caliper, adhesive		30µm
Caliper, backing paper	ISO 534	129 micron
Grammage, backing paper	ISO 536	135g/m <sup>2</sup>
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability <sup>2</sup>	Vertical exposure	2 years

**Adhesives**

Permanent      A glass clear, acrylic-based adhesive for maximum sunlight and weather resistance.  
 Good initial tack and ultimate adhesion. Resists high temperature

	<b>Permanent</b>
Adhesion (N/m) (FTM 1 on steel/after 24h)	1100
Tack (N/m) (FTM 9 on glass)	800
Minimum application temperature	> + 10
Service temperature range	
up to 24 hrs (°C)	+ 80
up to 1 hr (°C)	+ 110
Resistance to cold (°C) <sup>1)</sup> down to	- 20

<sup>1)</sup> Not fully resistant until after adhesion reaches full strength – after at least 24 hrs

**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 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.