

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 for screenprinting.

Description

Facematerial: 50 micron matt chrome, topcoated aluminium foil

Availability

	Adhesive ☺ ☹	Permanent
Backing (one side coated kraft paper)		
Standard		x

Conversion

Suitable for screen printing. May also be printed by offset and letterpress using special procedures. Consult your ink supplier for details and ink recommendations.

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-

Environmental, Health and Safety Regulations

The product meets the European Toy Regulations EN 71-3.

The product complies with the US CONEG Model Toxics Legislation and the EC directive 94/62/EC, article 11 on packaging and packaging waste, with reference to the acceptable levels of heavy metals, i.e. sum of heavy metals Cadmium, Mercury, Lead and Chromium (VI) is less than 100 ppm.

PRODUCT CHARACTERISTICS

Avery Dennison® 180 Solid Foil

Physical properties

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	50 micron
Dimensional stability	DIN 30646	0.1 mm. max
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability ²	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

	<u>Permanent</u>	
Minimum application temperature	+10°C	
Service temperature range	-40°C to +150°C	
Adhesion on stainless steel, initial	600 N/m	FTM-1
Adhesion on stainless steel, ultimate	800 N/m	FTM-1

At lower temperatures, application may be accomplished by lightly wiping the adhesive with isopropyl alcohol.

Chemical properties

Features	Test method ¹	Results
Humidity resistance	120 hours exposure	No effect
Corrosion resistance	120 hours exposure	No contribution to corrosion
Water resistance	48 hours immersion	No effect
Sea water resistance	1 year half tide immersion	
Solvent resistance	BS 5609:1978 Applied to aluminium	No effect No effect if exposed to: oils, greases, aliphatic solvents, motor oils, heptane, kerosene and JP-4 fuel.

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 without notice.

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.