Avery® 180 Solid Foil

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Introduction
Avery 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 ➲ / *Backing* (one side coated kraft paper) ➲	Permanent
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.

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

	Permanent	
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	
	BS 5609:1978	No effect
Solvent resistance	Applied to aluminium	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
Avery® 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 authorised to give any guarantee, warranty, or make any representation contrary to the foregoing.
All Avery® 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.

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.

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