Avery Dennison® Tattoo Film

Features

- Create subtle two-tone effects on any coloured background
- Excellent layflatness and stability during conversion, handling and application
- Excellent performance on flat surfaces and curved surfaces
- Outstanding durability and outdoor life
- Excellent UV, temperature, humidity and salt-spray resistance
- Exceptional adhesion to a wide variety of substrates

Description

Film: 60 micron gloss transparent cast vinyl film with tattoo effect

Adhesive: Clear permanent acrylic

Backing: One side coated kraft paper, 140g/m^2

Outdoor life**:
Up to 5 years

Conversion*

- ☑ **Flat bed cutters**
- ☑ **Friction fed cutters**
- ☑ **Die cutting**
- ☐ **Thermal transfer**
- ☑ **Screen printing**
- ☐ Cold overlaminating
- ☐ Estat printing
- ☐ Water based inkjet
- ☐ Solvent inkjet
- ☐ UV Cured inkjet

Common Applications

- Vehicle graphics
- Recreational vehicles
- Marine graphics
- Exterior decoration
- Outdoor graphics or signs

Uses

Avery Dennison Tattoo Film is a durable speciality cast vinyl film designed to create a tattoo effect on the application surface. The Avery Dennison Tattoo Film is a transparent film with small quantities of black pigment and metal flakes showing a darker shade on light coloured substrates and a lighter shade on dark coloured substrates. Avery Dennison Tattoo Film is a unique product that provides you with the ability to customise your vehicle graphics with a two-tone effect.

Physical characteristics

General

Calliper, face film	ISO 534	60 micron
Calliper, face film & adhesive	ISO 534	90 micron
Dimensional stability	DIN 30646	0.25 mm max
Adhesion, initial	FINAT FTM-1, stainless steel	510 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	720 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55% RH	2 years
Durability **	Vertical exposure	up to 5 years
Accelerated ageing	SAE J 1960 1500 hours exposure	No negative impact on film performance

Thermal

Application temperature	Minimum: + 10°C
Temperature range	- 40°C to + 80°C

Chemical

Humidity resistance	200 hours exposure	No effect
Corrosion resistance	120 hours exposure	No contribution to corrosion
Water resistance	48 hours immersion time	No effect

Important

Information on physical 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 any material for their specific use.

All technical data is subject to change without prior notice.

Warranty

Avery Dennison® 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 guarantee, warranty, or make any representation contrary to the foregoing.

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

****Durability**

Durability is based on exposure conditions in the normal middle European and central North American regions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing north in the southern hemisphere or south in the northern hemisphere; in areas of long high temperature exposure such as northern Australia; in industrially polluted areas or high altitudes, exterior performance will be decreased. Please refer to Avery Dennison Instructional Bulletin 1.3 for definitions and reductions based on the 'Zone System'.

*Please test converting method prior to use.

Test Methods

Dimensional stability:
Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°C, after which the shrinkage is measured.

Adhesion:
(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

Flammability:
A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:
A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:
All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Corrosion Resistance:
A specimen applied to aluminium is exposed to saline mist (5% salt) at 35ºC. After exposure, the film is removed and the panel is examined for traces of corrosion.