

Avery Dennison® 7110 & 7120

Clear Anti-Graffiti Polyester Overlaminates Permanent

Features

- Allows easy removal of graffiti
- High abrasion resistance
- High clarity
- Good resistance to UV radiation and weathering exposure
- Excellent dimensional stability
- Excellent resistance to chemicals and solvents
- Excellent adhesion and vandal resistance
- Available in gloss and matt finish

Description



Film: 23 micron flexible treated transparent polyester, Gloss (7110) and matt (7120) finish



Adhesive: Permanent acrylic



Backing: One side coated Kraft paper, 140 gsm



Outdoor life: up to 5 years

Conversion

- | | |
|---|---|
| <input type="checkbox"/> Flat bed cutters | <input checked="" type="checkbox"/> Cold overlaminate |
| <input type="checkbox"/> Friction fed cutters | <input type="checkbox"/> E-inkjet printing |
| <input type="checkbox"/> Die cutting | <input type="checkbox"/> Water based inkjet |
| <input type="checkbox"/> Thermal transfer | <input type="checkbox"/> Solvent inkjet |
| <input type="checkbox"/> Screen printing | <input type="checkbox"/> UV Cured inkjet |

Common Applications

- Buses
- Trains and light rail
- Screen printed graphics

Uses

Avery 7110/7120 Anti Graffiti Film is an overlaminate film that protects durable indoor and outdoor markings and decorations against permanent damage from chemicals, solvents or graffiti paints. Avery Anti Graffiti Film is specially recommended for use as an overlaminate on printed graphics in public areas, gasoline stations and on (public) transport vehicles. Avery Anti Graffiti Film will also give protection against stone chippings. Most commercially available graffiti removal fluids will allow the removal of graffiti without damaging Avery 7110/7120 Anti Graffiti Film. For maximum protection against gasolines and other chemical substances the use of an edge sealer is recommended: please consult the technical bulletin for application of graphics to pump skirts for details.

Note

PVC / Polyester film combinations are not compatible with acrylic, polycarbonate and other substrates that have a tendency to outgas. Application to these substrates should be avoided as bubbling or blistering can occur due to the inability of Polyester to allow transmission of gas generated by these substrates.

Physical characteristics

General

Calliper, face film	ISO 534	23 micron
Dimensional stability	DIN 30646	0.1 mm max
Adhesion, initial	FINAT FTM-1, stainless steel	500 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	600 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Accelerated Ageing	DIN 53387 1500 hours of exposition	No negative effect on film performance
Durability **	Vertical exposure	
	Exterior	5 years
	Interior	7 years

Thermal

Application temperature	Minimum: + 10°C
Service temperature	- 40°C to + 150°C

Chemical

Humidity resistance	120 hours exposure	No effect
Corrosion resistance	120 hours exposure	No contribution to corrosion
Water resistance	48 hours immersion	No effect
Resistance to cleaning	ASTM-D-2486; 1000 cycles	No effect
Chemical Resistance	Mild acid	No effect
	Mild alkalines	No effect
Solvent resistance	Applied to aluminium and exposed to: gasoline, oils, greases, aliphatic solvents, motor oils, heptane, kerosene and JP-4 fuel.	No effect

Immersion fluid	Duration	Effect
Diesel oil	24 hours	No effect
Antifreeze	24 hours	No effect
Distilled water 65°C	24 hours	No effect
Detergent solution 65°C	8 hours	No effect
SAE motor oil	24 hours	No effect
Mild acids	24 hours	No effect
Mild alkalines	24 hours	No effect
Resistance to cleaning	ASTM-D-2486; 1000 cycles	No effect

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.

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'.

^Compatible with most printer and ink combinations. Test with your combination of printer and inks prior to commercial use.

***Information unavailable at time of printing.

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 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.



Graphics
Solutions

Avery Dennison Graphics Solutions Asia Pacific

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