

Avery® 7110 Anti Graffiti Film

Gloss Transparent Polyester

Introduction

Avery Anti Graffiti Film is an overlaminating film that protects durable indoor and outdoor markings/decorations against permanent damage from graffiti paints. Avery Anti Graffiti Film is specially recommended on public transport vehicles, such as trains.

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 Anti Graffiti Film.

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.

Common applications

- Over laminating film for applications requiring easy removal of graffiti.

Conversion

- | | |
|---|--|
| <input type="checkbox"/> Flat bed cutters | <input checked="" type="checkbox"/> Cold overlaminating |
| <input type="checkbox"/> Friction fed cutters | <input type="checkbox"/> Estat 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"/> Mild solvent inkjet |

Note:

If Avery 7110 Anti Graffiti Film is laminated over screen printed markings or decorations, the inks should be free of (silicone) additives that might reduce/prevent proper adhesion of Avery 7110 Anti Graffiti Film.

Description



Film: 23 micron gloss highly transparent treated polyester



Adhesive: Permanent acrylic



Backing: one side coated kraft paper, 140 g/m²



Outdoor life: Up to 5 years
Indoor life: Up to 7 years



Physical characteristics

General

| Feature | Test methods* | Results |
|------------------------------|--------------------------------|--|
| Caliper, facefilm | ISO 534 | 23 micron |
| Caliper, facefilm + adhesive | ISO 534 | 55 micron |
| Adhesion, initial | FINAT FTM-1, stainless steel | 500 N/m |
| Adhesion, ultimate | FINAT FTM-1, stainless steel | 600 N/m |
| Accelerated ageing | DIN 53387, 1500 hours exposure | No negative impact on film performance |
| Flammability | | Self-extinguishing |
| Shelf life | Stored at 22°/ 50-55% RH | Up to 2 years |
| Durability**, unlaminated | Vertical exposure | |
| Interior | | 7 years |
| Exterior | | 5 years |

Temperature range

| Features | Results |
|---------------------------------|---------------------|
| Minimum application temperature | + 10 °C |
| Service temperature range | - 50 °C to + 150 °C |

Chemical properties

| Feature | Test methods* | Results |
|------------------------|--|------------------------------|
| 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 BS 5609:1978 | No effect |

Chemical/Solvent resistance

| Test Fluid | Immersion time | Adhesion |
|--------------------------|----------------|-----------|
| Diesel oil | 24 hours | No effect |
| SAE motor oil | 24 hour | No effect |
| Anti freeze | 24 hours | No effect |
| Distilled water 65 °C | 24 hours | No effect |
| Detergent solution 65 °C | 8 hours | No effect |
| Mild acids | 24 hours | No effect |
| Mild alkalines | 24 hours | 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® 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® materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

* Test methods

More information about our test methods can be found on our website.

**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.

