

Avery Dennison® 4500 Translucent Translucent Calendered Vinyl

Features

- Good colour fastness, durability and outdoor performance
- Excellent colour uniformity in reflected and transmitted light
- Compatible with a wide range of substrates
- Dimensionally stable backing for easy converting
- Excellent conversion properties on computerised cutters
- Easy cutting and weeding
- Excellent value for money

Conversion

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

Uses

Avery Dennison 4500 Translucent is an economic translucent film for use in a wide range of internally illuminated signs and as a creative addition to window graphics.

Description



Film: 90 micron translucent vinyl



Adhesive: Permanent acrylic



Backing: One side coated bleached Kraft paper, 140 gsm



Outdoor life: up to 7 years



Colours: 40 standard

Common Applications

- Internally illuminated signs
- Architectural signage
- Window graphics

Physical characteristics

General

Caliper, facefilm	ISO 534	90 micron
Caliper, facefilm & adhesive	ISO 534	120 micron
Dimensional stability	DIN 30646	0.3 mm max
Tensile strength	DIN 53455	27 N/mm ²
Gloss	ISO 2813, 20°	15%
Adhesion, initial	FINAT FTM-1	70% of ultimate values
Adhesion, ultimate	FINAT FTM-1, PMMA	900 N/m
	Glass	860 N/m
	Polystyrene	900 N/m
	Stainless Steel	900 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22°C/50-55% RH	2 years
Accelerated ageing	DIN 53387 1500 hours exposure	No significant colour change
Durability **	Vertical exposure	
	Black & white	up to 7 years
	Colours	up to 7 years
	4510 Orange & 4513 Violet	up to 5 years
	Metallic	up to 5 years

Thermal

Application temperature		Minimum: + 10°C
Temperature range		- 50°C to + 110°C
Heat Resistance	3 Weeks exposure at 80°C	No significant colour change

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'.

***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.

