

Avery Dennison® 4900 A-Polar

Gloss White Cast Vinyl Supertack

Features

- Outstanding adhesion to low surface energy surfaces such as chemical drums and plastic containers
- Excellent application at low temperatures
- High gloss for superior appearance
- Excellent dimensional stability during use
- Outstanding outdoor exposure performance
- Superior conformability to irregular shaped surfaces

Conversion

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

Application

Avery Dennison 4900 A-Polar Cast Supertack should not be applied to transparent or translucent substrates for outdoor use due to the negative effect of UV radiation on the adhesive.

The use of varnish is recommended for applications where frequent petrol spills occur.

Uses

Avery Dennison 4900 A-Polar Cast Supertack is suitable for use on both low surface energy and textured substrates where it is difficult to obtain good adhesion.

Description



Film: 50 micron gloss white cast vinyl



Adhesive: permanent, acrylic based, specially formulated for adhesion to a-polar and rough surfaces.



Backing: Two side polyethylene coated Staffat paper



Outdoor life: Up to 7 years (unprinted)

Common Applications

- Plastic containers
- Point of purchase
- Outdoor posters and murals
- Indoor posters and murals
- Bumper stickers

Physical characteristics

General

Caliper, facefilm	ISO 534	50 micron
Dimensional stability	DIN 30646	0.2 mm max
Tensile strength	DIN 53455	22 N/mm ²
Elongation	DIN 53455	25%
Gloss	ISO 2813, 20 ²	50 %
Adhesion, initial	FINAT FTM-1, stainless steel	600 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	800 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22 °C/50-55 % RH	2 years
Accelerated ageing	DIN 53387 1500 hours exposure	No negative impact on film performance
Durability **	Vertical exposure	up to 7 years (unprinted)

Thermal

Application temperature	Minimum: + 4°C
Temperature range	- 50°C to + 70°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
Sea water resistance	1 year half tide immersion BS5609:1978	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 prior to 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.