

# Avery Dennison<sup>®</sup> 6903

## Gloss White Cast Vinyl Repositionable PE

### Features

- Low initial tack allows graphics to be repositioned during application
- Blockout performance
- Excellent sheet stability and layflatness for precise register and printing
- Excellent printability, conversion and application characteristics
- High gloss for superior appearance
- Excellent conformability to irregular surfaces
- Excellent opacity provides blockout performance
- Excellent dimensional stability during use
- Excellent outdoor durability
- Superb UV, humidity and saltspray resistance

### Description



**Film:** 50 micron gloss white cast vinyl



**Adhesive:** Grey repositionable permanent acrylic



**Backing:** Two side polyethylene coated Staflat paper



**Outdoor life:** Up to 10 years (unprinted)

### Conversion<sup>^</sup>

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Flat bed cutters     | <input type="checkbox"/> Cold overlaminating    |
| <input checked="" type="checkbox"/> Friction fed cutters | <input type="checkbox"/> Electrostatic printing |
| <input checked="" type="checkbox"/> Die cutting          | <input type="checkbox"/> Latex inkjet           |
| <input checked="" type="checkbox"/> Thermal transfer     | <input type="checkbox"/> Eco solvent inkjet     |
| <input checked="" type="checkbox"/> Screen printing      | <input type="checkbox"/> Solvent inkjet         |
| <input type="checkbox"/> Offset printing                 | <input type="checkbox"/> UV curable inkjet      |

<sup>^</sup>Always test with your combination of printer and inks prior to commercial use.

### Uses

Avery Dennison 6903 is ideal for a wide range of large fleet and architectural signage applications where conformability, durability and superior outdoor performance are required.

### Common Applications

- Flat sided trucks
- Corrugated trucks
- Cars and vans
- Marine
- Architectural signage
- Outdoor advertising
- Industrial machinery

## Physical characteristics

## General

|                              |                               |  |
|------------------------------|-------------------------------|--|
| Caliper, facefilm            | ISO 534                       | 50 micron                              |
| Caliper, facefilm & adhesive | ISO 534                       | 80 micron                              |
| Dimensional stability        | DIN 30646                     | 0.2 mm max                             |
| Tensile strength             | DIN 53455                     | 22 N/mm²                               |
| Elongation                   | DIN 53455                     | 50%                                    |
| Gloss                        | ISO 2813, 20°                 | 50 %                                   |
| Adhesion, initial            | FINAT FTM-1, stainless steel  | 480 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 exposure | No negative impact on film performance |
| Durability **                | Vertical exposure             | Up to 10 years (unprinted)             |

## Thermal

|                         |                   |
|-------------------------|-------------------|
| Application temperature | Minimum: + 10°C   |
| Temperature range       | - 40°C to + 110°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                    |
| Chemical Solvent Resistance |                         |                              |
| <b>Test Fluid:</b>          | <b>Immersion Time:</b>  | <b>Adhesion:</b>             |
| Gasoline                    | 1 hour                  | 600 N/m                      |
| Diesel oil                  | 24 hours                | 600 N/m                      |
| Transformer oil             | 24 hours                | 600 N/m                      |
| Antifreeze                  | 24 hours                | 600 N/m                      |
| Distilled water (65°C)      | 24 hours                | 600 N/m                      |
| Detergent solution (65°C)   | 8 hours                 | 600 N/m                      |
| SAE Motor oil               | 24 hours                | 600 N/m                      |
| Kerosene                    | 24 hours                | 600 N/m                      |

## Test

**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'.

**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.