

# Avery Dennison® 5500 QM Translucent Film

## Features

- Outstanding colour fastness, durability and outdoor performance
- Excellent colour uniformity in reflected and transmitted light
- Compatible with a wide range of rigid and flexible substrates
- Dimensionally stable backing for easy converting
- Excellent conversion properties on computerised cutters
- Easy cutting and weeding
- Excellent dimensional stability
- Excellent UV, temperature, humidity and salt-spray resistance
- Batch reference and product identification printed on liner for traceability

## 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     |

## Custom Colours

A fast colour matching service is offered for projects where specific colours are required. A minimum order quantity of only 61m<sup>2</sup> is required.

## Uses

Avery Dennison 5500 Cast Translucent is designed for use in a wide range of internally illuminated signs and canopies (rigid and flexible) or as a creative addition to window graphics.

## Description



**Film:** 50 micron cast vinyl



**Adhesive:** Permanent acrylic



**Backing:** One side coated bleached Kraft paper, 140gsm



**Outdoor life:**  
up to 10 years



**Colours:** 85 standard

## Common Applications

- Internally illuminated signs
- Architectural signage
- Window graphics

## Physical characteristics

### General

|                                |                                  |                              |
|--------------------------------|----------------------------------|------------------------------|
| Calliper, face film            | ISO 534                          | 50 micron                    |
| Calliper, face film & adhesive | ISO 534                          | 80 micron                    |
| Dimensional stability          | DIN 30646                        | 0.2 mm max.                  |
| Tensile strength               | DIN 53455                        | 1.0 N/mm <sup>2</sup>        |
| Elongation                     | DIN 53455                        | 75%                          |
| Gloss                          | ISO 2813, 20°                    | 25 %                         |
| Adhesion, initial              | FINAT FTM-1                      | 540 N/m                      |
| Adhesion, ultimate             | FINAT FTM-1 PMMA                 | 650 N/m                      |
|                                | Glass                            | 600 N/m                      |
|                                | Stainless Steel                  | 650 N/m                      |
| Flammability                   |                                  | Self extinguishing           |
| Shelf life                     | Stored at 22 °C/50-55 % RH       | 2 years                      |
| Accelerated aging              | DIN 53387<br>1500 hours exposure | No significant colour change |
| Durability **                  | Vertical exposure                |                              |
|                                | Black & white                    | Up to 10 years               |
|                                | Colours                          | up to 8 years                |
|                                | Vac-formed                       | up to 6 years                |

### Thermal

|                         |                          |                              |
|-------------------------|--------------------------|------------------------------|
| Application temperature |                          | Minimum: + 10°C              |
| Heat resistance         | 3 weeks exposure at 80°C | No significant colour change |

### 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.

### 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.

#### 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.

