

# Technical specification sheet

Ball & Doggett

ballanddoggett.com.au

**Product:** Avery Dennison® MPI 2900/2902/2903 Gloss

Gloss White Polymeric Calendered Vinyl



Graphics  
Solutions

**Category:** Display & Visual - Solvent, Latex, Eco Solvent

**Country of Origin:** USA

## Technical specifications:

### Features

- Gloss white polymeric calendered vinyl film offering a cost effective solution for intermediate outdoor graphic needs
- Excellent printability across a range of technology and inks
- Gloss finish for great image clarity and colour pop
- StaFlat™ liner provides excellent handling and converting properties
- Reliable outdoor durability and performance
- Very good dimensional stability after application
- Excellent adhesion to most surfaces
- Compatible with the Avery Dennison DOL 2000/2800/2900 series overlaminates

### Conversion+

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

\*Always test with your combination of printer and inks prior to commercial use.

### Application

- Avery Dennison Graphics recommends a maximum total ink limit of 270% to ensure optimal performance.
- Refer to Instructional Bulletins 1.01, 1.4, 4.06 & 4.14 for printing, laminating and application instructions.

### Uses

Avery Dennison MPI 2900 is a gloss white polymeric calendered vinyl film designed for use for a wide range of intermediate outdoor and general signage applications where good outdoor durability and good print quality are required.

Updated: 05.18

### Description



**Film:** 76 micron gloss white polymeric calendered vinyl



**Adhesive:**  
MPI 2900 Permanent clear  
MPI 2902 Removable grey  
MPI 2903 Permanent grey



**Backing:** Two side PE coated StaFlat™ paper, 145g/m2



**Outdoor life\*\*:** Up to 5 years (unprinted)

**Application surface:** Flat, simple curves

### Common Applications

- Outdoor signage
- Point of purchase
- Outdoor advertising
- Indoor advertising
- Exhibition graphics
- Window graphics



## General

Calliper, face film	ISO 534	76 micron
Calliper, face film & adhesive	ISO 534	101 micron
Dimensional stability	DIN 30646	1.651mm max.
Gloss	Hunter Gloss at 60°	90
Adhesion, initial	FINAT FTM-1, stainless steel MPI 2900 Permanent MPI 2902 Removable MPI 2903 Permanent	831N/m 439 N/m 962 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel MPI 2900 Permanent MPI 2902 Removable MPI 2903 Permanent	962 N/m 945 N/m 962 N/m
Flammability		Self extinguishing
Shelf life	Stored at 20-25° C / 45-55 % RH	2 years
Durability **	Vertical exposure ^	Up to 5 years (unprinted)

^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information

## Thermal

Application temperature	Minimum: + 10oC
Temperature range	- 40oC to + 82oC

## Chemical

Resistant to most mild acids, alkalis and salt solutions.

## Note

Materials have to be properly dried and cured before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

## 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

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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

## 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.

## Product: Avery Dennison® MMPI 2920 Matte Permanent

Matte White Polymeric Calendered Vinyl Permanent (Formerly MPI 2720)



Graphics  
Solutions

## Category: Display & Visual - Solvent, Latex, Eco Solvent

### Technical specifications:

#### Features

- Matte white polymeric calendered vinyl construction to meet your lower cost intermediate requirements
- Good printability across a range of technology and inks
- Matte finish for low glare appearance
- Two side PE coated StaFlat liner provides easy converting properties
- Reliable outdoor durability and performance
- Good dimensional stability after application
- Compatible with the Avery Dennison DOL 2000 series overlaminates
- Meets ASTM E84-04, Standard Test Method for Surface Burning Characteristics of Building Materials, Class A Rated

#### Description



**Film:** 86 micron matte white polymeric calendered vinyl



**Adhesive:** Clear permanent acrylic



**Backing:** Two side PE coated Staflat™ paper



**Outdoor life:** Up to 5 years (unprinted)

**Application surface:** Flat, simple curves

#### Conversion<sup>+</sup>

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

\*Always test with your combination of printer and inks prior to commercial use.

#### Uses

Avery Dennison MPI 2920 Matte Permanent is a satin white polymeric calendered vinyl film designed for use in a wide range of intermediate outdoor applications and general signage applications where good outdoor durability and good print quality are required.

#### Common Applications

- General signage
- Point of purchase
- Outdoor advertising
- Indoor advertising
- Exhibition graphics
- Window graphics

## General

Caliper, facefilm	ISO 534	86 micron
Caliper, facefilm & adhesive	ISO 534	112 micron
Dimensional stability	DIN 30646	Good
Gloss	Hunter Gloss @ 60	55
Adhesion, initial	FINAT FTM-1, stainless steel	560 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	***
Flammability	Meets ASTM E84-04, Standard Test Method for Surface Burning Characteristics of Building Materials, Class A Rated	Self extinguishing
Shelf life	Stored at 20-25°C / 45-55 % RH	2 years
Durability **	Vertical exposure ^	Up to 5 years (unprinted)

^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information

## Important

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## 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.

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## \*\*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.

## Thermal

Application temperature	Minimum: + 4°C
Temperature range	- 40°C to + 80°C

## Chemical

Resistant to most mild acids, alkalies and salts

## Note:

Materials have to be properly dried before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

## 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.

## Product: Avery Dennison® MPI 2921 Matte Removable

Matte White Polymeric Calendered Vinyl Removable (Formerly MPI 2721™)



Graphics Solutions

## Category: Display & Visual - Solvent, Latex, Eco Solvent

### Technical specifications:

#### Features

- Matte white polymeric calendered vinyl construction to meet your lower cost intermediate requirements
- Good printability across a range of technology and inks
- Matte finish for low glare appearance
- Two side PE coated StaFlat liner provides easy converting properties
- Reliable outdoor durability and performance
- Good dimensional stability after application
- Compatible with the Avery Dennison DOL 2000 series overlaminates
- Meets ASTM E84-04, Standard Test Method for Surface Burning Characteristics of Building Materials, Class A Rated

#### Description



**Film:** 86 micron matte white polymeric calendered vinyl



**Adhesive:** Clear permanent acrylic



**Backing:** Two side PE coated Staflat™ paper



**Outdoor life:** Up to 5 years (unprinted)

**Application surface:** Flat, simple curves

#### Conversion<sup>+</sup>

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

\*Always test with your combination of printer and inks prior to commercial use.

#### Uses

Avery Dennison MPI 2920 Matte Permanent is a satin white polymeric calendered vinyl film designed for use in a wide range of intermediate outdoor applications and general signage applications where good outdoor durability and good print quality are required.

#### Common Applications

- General signage
- Point of purchase
- Outdoor advertising
- Indoor advertising
- Exhibition graphics
- Window graphics

## General

Calliper, face film	ISO 534	86 micron
Calliper, face film & adhesive	ISO 534	112 micron
Dimensional stability	DIN 30646	Good
Gloss	Hunter Gloss @ 60	55
Adhesion, initial	FINAT FTM-1, stainless steel	175 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	***
Removability ^^	Smooth OEM painted surfaces	Up to 1 year
Flammability	Meets ASTM E84-04, Standard Test Method for Surface Burning Characteristics of Building Materials, Class A Rated	Self extinguishing
Shelf life	Stored at 20-25°C / 45-55 % RH	2 years
Durability **	Vertical exposure ^	Up to 5 years (unprinted)

^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information

^^ Not removable when applied to nitrocellulose paints, fresh screen print inks, ABS, polystyrene & certain types of PVC

## Important

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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.

## Thermal

Application temperature	Minimum: + 4°C
Temperature range	- 40°C to + 80°C

## Chemical

Resistant to most mild acids, alkalies and salts

## Note:

Materials have to be properly dried before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

## 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.

## Product: Avery Dennison® MPI 2923 Matte Easy Apply™

Matte White Polymeric Calendered Vinyl



Graphics Solutions

## Category: Display & Visual - Solvent, Latex, Eco Solvent

### Technical specifications:

#### Features

- Matte white polymeric calendered vinyl film offering a cost effective solution for your intermediate outdoor graphic needs
- Easy Apply™ adhesive technology with air egress channels to easily eliminate bubbles and wrinkles during application
- Excellent printability across a range of technology and inks
- Matte finish for low glare appearance
- StaFlat™ liner provides excellent handling and converting properties
- Reliable outdoor durability and performance
- Very good dimensional stability after application
- Grey adhesive provides extra opacity for blackout performance
- Permanent adhesive for excellent adhesion to most surfaces
- Compatible with the Avery Dennison DOL 2000 series overlaminates

#### Description



**Film:** 86 micron matte white polymeric calendered vinyl



**Adhesive:** Grey permanent acrylic with Easy Apply™ Technology



**Backing:** Two side PE coated StaFlat™ paper, 145g/m<sup>2</sup>



**Outdoor life\*\*:** Up to 5 years (unprinted)

**Application surface:** Flat, simple curves

#### Conversion\*

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

\*Always test with your combination of printer and inks prior to commercial use.

#### Common Applications

- Outdoor signage
- Point of purchase
- Outdoor advertising
- Indoor advertising
- Exhibition graphics
- Window graphics

#### Application

- Avery Dennison Graphics recommends a maximum total ink limit of 270% to ensure optimal performance.
- Dry application only. Do not use water and detergent or a commercial application fluid to position the graphic.
- Refer to Instructional Bulletins 1.01, 1.4, 4.06 & 4.14 for printing, laminating and application instructions.

#### Uses

Avery Dennison MPI 2923 Matte Easy Apply is a matte white polymeric calendered vinyl film designed for ease of application on a wide range of intermediate outdoor and general signage applications where good outdoor durability, high opacity and good print quality are required.

## General

Calliper, face film	ISO 534	86 micron
Calliper, face film & adhesive	ISO 534	111 micron
Dimensional stability	DIN 30646	0.6mm max.
Gloss	Hunter Gloss at 60°	15
Adhesion, initial	FINAT FTM-1, stainless steel	700 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	***
Flammability		Self extinguishing
Shelf life	Stored at 20-25° C / 45-55 % RH	2 years
Durability**	Vertical exposure ^	Up to 5 years (unprinted)

^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information

## Important

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All technical data is subject to change without prior notice.

## Warranty

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## \*\*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.

## Thermal

Application temperature	Minimum: + 10°C
Temperature range	- 40°C to + 82°C

## Chemical

Resistant to most mild acids, alkalies and salt solutions.

## Note

Materials have to be properly dried and cured before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

## 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.



## Product: Avery Dennison® MPI 2921 Matte Removable

Matte White Polymeric Calendered Vinyl Removable (Formerly MPI 2721™)



Graphics Solutions

## Category: Display & Visual - Solvent, Latex, Eco Solvent

### Technical specifications:

#### Features

- Matte white polymeric calendered vinyl construction to meet your lower cost intermediate requirements
- Good printability across a range of technology and inks
- Matte finish for low glare appearance
- Two side PE coated StaFlat liner provides easy converting properties
- Reliable outdoor durability and performance
- Good dimensional stability after application
- Easy and clean removability with heat up to 1 year
- Compatible with the Avery Dennison DOL 2000 series overlaminates
- Meets ASTM E84-04, Standard Test Method for Surface Burning Characteristics of Building Materials, Class A Rated

#### Description



**Film:** 86 micron matte white polymeric calendered vinyl



**Adhesive:** Removable acrylic  
**Removability:** up to 1 year



**Backing:** Two side PE coated Staflat™ paper



**Outdoor life\*\*:** Up to 5 years (unprinted)

**Application surface:** Flat, simple curves

#### Conversion\*

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

#### Uses

Avery Dennison MPI 2921 Matte Removable is a satin white polymeric calendered vinyl film designed for use in a wide range of intermediate outdoor and general signage applications where good outdoor durability, removability and good print quality are required.

#### Common Applications

- General signage
- Point of purchase
- Outdoor advertising
- Indoor advertising
- Exhibition graphics
- Window graphics

## General

Calliper, face film	ISO 534	86 micron
Calliper, face film & adhesive	ISO 534	112 micron
Dimensional stability	DIN 30646	Good
Gloss	Hunter Gloss @ 60	55
Adhesion, initial	FINAT FTM-1, stainless steel	175 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	***
Removability ^^	Smooth OEM painted surfaces	Up to 1 year
Flammability	Meets ASTM E84-04, Standard Test Method for Surface Burning Characteristics of Building Materials, Class A Rated	Self extinguishing
Shelf life	Stored at 20-25°C / 45-55 % RH	2 years
Durability **	Vertical exposure ^	Up to 5 years (unprinted)

^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information

^^ Not removable when applied to nitrocellulose paints, fresh screen print inks, ABS, polystyrene & certain types of PVC

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## \*\*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.

## Thermal

Application temperature	Minimum: + 4°C
Temperature range	- 40°C to + 80°C

## Chemical

Resistant to most mild acids, alkalies and salts

## Note:

Materials have to be properly dried before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

## 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.