

**Product: Avery Dennison® High Performance  
Polymeric Calendered Overlaminated DOL 2000**  
Gloss Clear Polymeric Calendered Overlamine



Graphics  
Solutions

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

**Country of Origin: USA**

## Technical specifications:

### Features

- Excellent UV protection
- Improves inkjet outdoor image durability up to 2 years
- Improves solvent inkjet outdoor image durability up to 4 years
- Good abrasion resistance
- Excellent adhesion to graphic materials
- Excellent transparency
- Brilliant gloss finish

### Description



**Film:** 80 micron gloss clear  
UV stable polymeric  
calendered vinyl overlamine



**Adhesive:** Permanent acrylic



**Backing:** One side coated  
130gsm Kraft paper



**Outdoor life:** Up to 4 years

### Conversion\*

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

### Common Applications

- Flat sided trucks
- Outdoor advertising
- Indoor advertising
- Windows
- Floor graphics
- General signage

### Standards

AS/NZS 4586:2004 Standard slip resistance classification of new pedestrian surfaces: Appendix A, B Dual Classification: ZF  
In order to interpret the classifications, please refer to Standards Australia Handbook 197, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, which recommends minimum classifications for a wide variety of locations.

### Applications

For processing tips and reference guides please refer to Avery Dennison Instructional Bulletins:

- 1.18 Application and Maintenance of Avery Dennison® Floor Graphics
- 4.06 Processing Tips for Avery Dennison DOL Films

### Uses

Avery Dennison DOL 2000 is a flexible high quality UV stable gloss polymeric calendered overlamine designed for use as a protective overlaminating film for digitally printed images and is suitable for medium life outdoor images on flat or simple curved surfaces.

## General

Calliper, face film	ISO 534	80 micron
Calliper, face film & adhesive	ISO 534	110 micron
Dimensional stability		0.3 mm max
Gloss	ISO 2813, 20°	70%
Adhesion, initial	ASTM 1000, stainless steel	500 N/m
Adhesion, ultimate	ASTM 1000, stainless steel	700 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability**	Vertical exposure	Up to 4 years
Slip resistance	AS/NZS 4586:2004	Appendix A, B Dual Classification: ZF

## 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.

## Thermal

Lamination temperature	See relevant technical bulletins
Service temperature range	- 40°C to + 80°C

## Chemical

Resistant to most petroleum based oils, greases, and aliphatic solvents

Resistant to mild acids, alkalis and salts

## 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® High Performance  
Polymeric Calendered Overlaminated DOL 2100**  
Matte Clear Polymeric Calendered Overlamine



Graphics  
Solutions

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

**Country of Origin: USA**

## Technical specifications:

### Features

- Excellent UV protection
- Improves inkjet outdoor image durability up to 2 years
- Improves solvent inkjet outdoor image durability up to 4 years
- Good abrasion resistance
- Excellent adhesion to graphic materials
- Excellent transparency
- Matte finish for low-glare applications

### Description



**Film:** 80 micron matte clear  
UV stable polymeric  
calendered vinyl overlamine



**Adhesive:** Permanent acrylic



**Backing:** One side coated  
Kraft, 130gsm



**Outdoor life:** Up to 4 years

### Conversion\*

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

### Common Applications

- Flat sided trucks
- Outdoor advertising
- Indoor advertising
- Windows
- Floor graphics
- General signage

### Standards

AS/NZS 4586:2004 Standard slip resistance classification of new pedestrian surfaces: Appendix A, B Dual Classification: YF  
In order to interpret the classifications, please refer to Standards Australia Handbook 197, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, which recommends minimum classifications for a wide variety of locations.

### Applications

For processing tips and reference guides please refer to Avery Dennison Instructional Bulletins:

- 1.18 Application and Maintenance of Avery Dennison® Floor Graphics
- 4.06 Processing Tips for Avery Dennison DOL Films

### Uses

Avery Dennison DOL 2100 is a flexible high quality UV stable matt polymeric calendered overlamine designed for use as a protective overlamining film for digitally printed images and is suitable for medium life outdoor images on flat or simple curved surfaces.

# Technical specification sheet

Ball & Doggett

ballanddoggett.com.au

## General

Calliper, face film	ISO 534	80 micron
Calliper, face film & adhesive	ISO 534	110 micron
Dimensional stability		0.3 mm max
Gloss	ISO 2813, 85°	75%
Adhesion, initial	ASTM 1000, stainless steel	500 N/m
Adhesion, ultimate	ASTM 1000, stainless steel	700 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability **	Vertical exposure	Up to 4 years
Slip resistance	AS/NZS 4586:2004	Appendix A, B Dual Classification: YF

## Thermal

Lamination temperature	See relevant technical bulletins
Service temperature range	- 40°C to + 80°C

## Chemical

Resistant to most petroleum based oils, greases, and aliphatic solvents

Resistant to mild acids, alkalis and salts

## 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.

## 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.

## 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.

**Product: Avery Dennison® High Performance  
Polymeric Calendered Overlaminated DOL 2200**  
Lustre Clear Calendered Overlamine



Graphics  
Solutions

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

**Country of Origin: USA**

## Technical specifications:

### Features

- Excellent UV protection
- Improves inkjet outdoor image durability up to 2 years
- Improves solvent inkjet outdoor image durability up to 4 years
- Good abrasion resistance
- Excellent adhesion to graphic materials
- Excellent transparency
- Lustre finish for a soft polished look

### Description



**Film:** 80 micron lustre UV stable polymeric calendered vinyl overlaminate



**Adhesive:** Permanent acrylic



**Backing:** One side coated Kraft paper, 130gsm



**Outdoor life:** Up to 4 years

### Conversion\*

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

### Common Applications

- Flat sided trucks
- Outdoor advertising
- Indoor advertising
- Windows
- Floor graphics
- General signage

### Standards

AS/NZS 4586:2004 Standard slip resistance classification of new pedestrian surfaces: Appendix A, B Dual Classification: YF  
In order to interpret the classifications, please refer to Standards Australia Handbook 197, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, which recommends minimum classifications for a wide variety of locations.

### Applications

For processing tips and reference guides please refer to Avery Dennison Instructional Bulletins:

- 1.18 Application and Maintenance of Avery Dennison® Floor Graphics
- 4.06 Processing Tips for Avery Dennison DOL Films

### Uses

Avery Dennison DOL 2200 is a flexible high quality UV stable lustre calendered overlamine designed for use as a protective overlamining film for digitally printed images and is suitable for medium life outdoor images on flat or simple curved surfaces.

## General

Calliper, facefilm	ISO 534	80 micron
Calliper, facefilm & adhesive	ISO 534	110 micron
Dimensional stability		0.3 mm max
Gloss	ISO 2813, 20°	25%
Adhesion, initial	ASTM 1000, stainless steel	500 N/m
Adhesion, ultimate	ASTM 1000, stainless steel	700 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability **	Vertical exposure	Up to 4 years
Slip resistance	AS/NZS 4586:2004	Appendix A, B Dual Classification: YF

## Thermal

Lamination temperature	See relevant technical bulletins
Service temperature range	- 40°C to + 80°C

## Chemical

Resistant to most petroleum based oils, greases, and aliphatic solvents

Resistant to mild acids, alkalis and salts

## 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.

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## \*\*Durability

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\*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.

### Product: Avery Dennison® HP MPI 2105

Easy Apply™ and Easy Apply™ RS Long Term Removable StaFlat™



Graphics Solutions

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

## Technical specifications:

### Features

- Easy Apply™ adhesive system with air egress channels for fast bubble and wrinkle free application
- RS adhesive allows graphics to be repositioned during application
- Excellent printability on eco-solvent, solvent, latex and UV curable inkjet printers
- Two side PE coated StaFlat™ liner provides easy handling and converting properties
- Excellent outdoor durability and performance
- Excellent dimensional stability during use
- High gloss finish for superior appearance
- Grey adhesive provides extra opacity for blackout performance
- Easy removability with heat for up to 4 years with little or no adhesive residue

### Description



**Film:** 80 micron high gloss white polymeric calendered vinyl



**Adhesive:** Grey permanent acrylic with Easy Apply and long term removability  
**Removability:** Up to 4 years



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



**Outdoor life™:** 7 years (unprinted)

**Application surface:** Flat, simple curves, gentle corrugations

### Conversion+

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

- General Signage
- Trains and light rail
- Buses
- Flat sided trucks
- Outdoor advertising
- Window graphics

### Application

- Avery Dennison Graphics recommend a maximum ink limit of 250% 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® HP MPI 2105 Easy Apply™ and Easy Apply™ RS Calendered Vinyl films are flexible high gloss calendered vinyls. HP MPI 2105 Easy Apply™ (RS) offers exceptional value for applications requiring premium calendered film durability combined with a permanent or removable adhesive performance. HP MPI 2105 Easy Apply™ RS (Repositionable, Slidable) offers the benefits of reduced wrinkling and air entrapment inherent in the application of decals

## General

Calliper, face film	ISO 534	80 micron
Calliper, face film & adhesive	ISO 534	120 micron
Dimensional stability	DIN 30646	1.651 mm max.
Elongation	DIN 53455 (Unprinted film)	Min 100%
Gloss	@ 60	85%
Adhesion, initial	ASTM 1000, stainless steel	450 N/m
Adhesion, 24 hours	ASTM 1000, stainless steel	550 N/m
Removability ^^	Smooth OEM painted surfaces	Up to 4 years
Flammability	Meets ASTM E84-04	Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability **	Vertical exposure^	Up to 7 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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All technical data is subject to change without prior notice.

## Warranty

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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'.

\*Patent Info: May be covered by one or more patents US6,630,049, US7,060,351, US7,344,618, US7,332,205, EP1276605, EP1282472 and other US and foreign patents pending and others used under license.

## Thermal

Application temperature	Minimum: +10°C
Temperature range	- 45°C to +80°C

## Chemical

Resistant to most mild acids, alkalis, and salts  
Resistant to humidity and water

## Note:

Materials have to be properly dried and cured of solvents 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 2006 Hi-Tack

Gloss White Premium Calendered Vinyl Permanent



Graphics Solutions

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

### Technical specifications:

#### Features

- Excellent printability on eco-solvent, solvent, latex and UV curable inkjet printers
- StaFlat™ liner provides easy handling and converting properties
- High gloss finish for superior appearance
- Excellent adhesion to low surface energy and difficult to adhere to substrates, such as HDPE and matt interior painted walls
- Very good low temperature adhesive performance
- Good conformability to flat and simple curved surfaces
- Very good dimensional stability after installation
- Excellent outdoor durability and performance

#### Description



**Film:** 80 micron gloss white polymeric calendered vinyl



**Adhesive:** high tack, permanent acrylic, designed for low surface energy substrates



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



**Outdoor life:** Up to 7 years (unprinted)

**Application surface:** Flat, simple curves, gentle corrugations

#### 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>  |

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

#### Common Applications

- Rubbish bin signage & advertising
- Port-a-loos
- Wall graphics
- General Signage
- Low surface energy substrates

#### Application

- Avery Dennison recommends a maximum total ink limit of 250% with solvent inkjet printing 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 2006 Hi-Tack is a high performance polymeric calendered film designed for use in a wide range of indoor or outdoor architectural, fleet and general signage applications where exceptional adhesion to LSE or difficult to adhere to substrates, application in low temperatures, excellent durability and slight conformability are required.

## General

Calliper, face film	ISO 534	80 micron
Calliper, face film & adhesive	ISO 534	120 micron
Dimensional stability	DIN 30646	0.8 mm max
Elongation	ISO 527 (Unprinted film)	>225%
Gloss	ISO 2813, 20°	60
Adhesion, initial (20 mins)	FINAT FTM-1, stainless steel	940 N/m
Adhesion, ultimate (24 hrs)	FINAT FTM-1, stainless steel	1050 N/m
Adhesion, initial (20 mins)	FINAT FTM-1, HDPE	490 N/m
Adhesion, ultimate (24 hrs)	FINAT FTM-1, HDPE	525 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Accelerated ageing	DIN 53387 1000 hours exposure	No negative impact on film performance
Durability **	Vertical exposure	Up to 7 years (unprinted)

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

## Thermal

Application temperature	Minimum: + 5°C
Temperature range	- 40°C to + 80°C

## Chemical

Resistant to most petroleum based oils, greases and aliphatic solvents  
Resistant to most mild acids, alkalies and salts

## Note:

Materials which have been solvent inkjet printed must 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 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 media 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.