

Technical specification sheet

Ball & Doggett

ballanddoggett.com.au

Product: Avery Dennison® DOL 1480Z Matte

Matte Clear Conformable Cast Overlamine



Graphics
Solutions

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

Technical specifications:

Features

- Conformable film with excellent deep recess (channel) and compound curve performance in combination with our MPI 1105 series ultimate cast films
- Provides maximum UV and weathering protection with added abrasion and chemical resistance to printed graphics. Improves solvent, UV curable and latex inkjet outdoor image durability up to 5 years
- Superior smooth low glare matte finish
- Brilliant transparency for bright, vivid images
- Dimensionally stable mottle reduction PET liner for easy converting
- Exceptional adhesion to solvent inkjet, UV curable inkjet, latex inkjet and screen printed graphics
- Excellent adhesive contact to UV curable inks with no "silvering"
- Provides extra "body" to finished graphics for improved application performance without the need for application tape

Description



Film: 30 micron matte clear super conformable UV stable cast vinyl overlaminate



Adhesive: Permanent acrylic



Backing: One side coated transparent PET film, 50 micron



Outdoor life: Up to 7 years

Conversion

- | | |
|---|--|
| ☐ Flat bed cutters | ☒ Cold overlamining |
| ☐ Friction fed cutters | ☐ Latex inkjet |
| ☐ Die cutting | ☐ Eco solvent inkjet |
| ☐ Thermal transfer | ☐ Solvent inkjet |
| ☐ Screen printing | ☐ UV Cured inkjet |

Common Applications

- Flat sided trucks
- Corrugated trucks
- Cars and vans
- Marine

Application

- For processing tips and reference guides please refer to Avery Dennison Instructional Bulletins:
 - 4.06 Processing Tips for Avery Dennison DOL Films

Uses

Avery Dennison DOL1480Z Matte is a conformable premium quality UV stable matte cast overlaminate designed for use as a protective overlaminating film for digitally printed images and is suitable for durable outdoor images on irregular surfaces, such as vehicles, where a smooth low glare matte finish and excellent conformability is necessary.

Technical specification sheet

Ball & Doggett

ballanddoggett.com.au

General

Calliper, face film	ISO 534	30 micron
Calliper, face film & adhesive	ISO 534	55 micron
Dimensional stability	DIN 38464	0.4mm Max
Tensile Strength	DIN 53455	0.5-1.25 kg/cm
Elongation	DIN 53455	> 150%
Gloss	ISO 2813, 85o	20%
Adhesion, initial	ASTM 1000, stainless steel	525 N/m
Adhesion, ultimate	ASTM 1000, stainless steel	613 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Expected Durability **	Vertical exposure	Up to 7 years

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.

**Expected Durability

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within Zone 1 of the Avery Dennison zone system, in outdoor vertical exposure conditions.

The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films. In case of films used in areas of high temperatures or humidity, high altitudes and industrially polluted areas the performance will be further reduced.

Expected Durability and Warranted Period Definitions

Expected durability is the expected period of time defined in the product data sheet, the product should, but is not warranted to, perform satisfactorily when applied in vertical exposure conditions as defined in Instructional Bulletin 1.30. The warranted period as defined in the appropriate ICS Performance Guarantee Bulletin, is the maximum period of time Avery Dennison will warrant the finished products performance in accordance with ICS Performance Guarantee Terms and Conditions 1.0, provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines.

Thermal

Min. Application Temperature	+ 4 oC
Lamination temperature	See relevant technical bulletins
Service temperature range	- 40oC to + 80oC

Chemical

Resistant to most 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.



Technical specification sheet

Ball & Doggett
ballanddoggett.com.au

Product: Avery Dennison® DOL 1460Z High Gloss

High Gloss Clear Conformable Cast Overlamine



Graphics
Solutions

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

Technical specifications:

Features

- Conformable film with excellent deep recess (channel) and compound curve performance in combination with our MPI 1105 series ultimate cast films
- Provides maximum UV and weathering protection with added abrasion and chemical resistance to printed graphics. Improves solvent, UV curable and latex inkjet outdoor image durability up to 5 years
- Wet paint-like look high gloss finish
- Brilliant transparency for bright, vivid images
- Dimensionally stable mottle reduction PET liner for easy converting
- Exceptional adhesion to solvent inkjet, UV curable inkjet, latex inkjet and screen printed graphics
- Excellent adhesive contact to UV curable inks with no “silvering”
- Provides extra “body” to finished graphics for improved application performance without the need for application tape

Description



Film: 30 micron high gloss clear conformable UV stable cast vinyl overlaminate



Adhesive: Permanent acrylic



Backing: One side coated transparent PET film, 50 micron



Outdoor life: Up to 7 years

Conversion

- | | |
|---|--|
| ☐ Flat bed cutters | ☒ Cold overlamining |
| ☐ Friction fed cutters | ☐ Latex inkjet |
| ☐ Die cutting | ☐ Eco-solvent inkjet |
| ☐ Thermal transfer | ☐ Solvent inkjet |
| ☐ Screen printing | ☐ UV Cured inkjet |

Common Applications

- Flat sided trucks
- Corrugated trucks
- Cars and vans
- Marine

Application

- For processing tips and reference guides please refer to Avery Dennison Instructional Bulletins:
 - 4.06 Processing Tips for Avery Dennison DOL Films

Uses

Avery Dennison DOL1460Z High Gloss is a conformable premium quality UV stable high gloss cast overlaminate designed for use as a protective overlamining film for digitally printed images and is suitable for durable outdoor images on irregular surfaces, such as vehicles, where high gloss finish and the excellent conformability is necessary.

Technical specification sheet

Ball & Doggett
ballanddoggett.com.au

General

Calliper, face film	ISO 534	30 micron
Calliper, face film & adhesive	ISO 534	55 micron
Dimensional stability	DIN 38464	0.4mm Max
Tensile Strength	DIN 53455	0.5-1.25 kg/cm
Elongation	DIN 53455	> 150%
Gloss	ISO 2813, 60°	90%
Adhesion, initial	ASTM 1000, stainless steel	525 N/m
Adhesion, ultimate	ASTM 1000, stainless steel	613 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Expected Durability **	Vertical exposure	Up to 7 years

Thermal

Min. Application Temperature	+ 4 °C
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

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.

**Expected Durability

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within Zone 1 of the Avery Dennison zone system, in outdoor vertical exposure conditions.

The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films. In case of films used in areas of high temperatures or humidity, high altitudes and industrially polluted areas the performance will be further reduced.

Expected Durability and Warranted Period Definitions

Expected durability is the expected period of time defined in the product data sheet, the product should, but is not warranted to, perform satisfactorily when applied in vertical exposure conditions as defined in Instructional Bulletin 1.30. The warranted period as defined in the appropriate ICS Performance Guarantee Bulletin, is the maximum period of time Avery Dennison will warrant the finished products performance in accordance with ICS Performance Guarantee Terms and Conditions 1.0, provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines.

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.