

Avery Dennison® DOL 6460 High Gloss Clear Ultra Conformable Polyurethane Overlamine

Features

- Ultra conformable film with excellent deep recess (channel) and concave performance in combination with our Ultimate Cast films
- Suitable for use in recesses (channels) with MPI 1105 Easy Apply™ RS
- Provides maximum UV and weathering protection with added abrasion and chemical resistance to printed graphics
- High gloss finish
- Brilliant transparency for enhanced colour depth and bright, vivid images
- Dimensionally stable mottle reduction PET liner for easy converting
- Improves digital inkjet outdoor image durability, provides warranted performance of up to 6 years vertical and 3 years on horizontal
- Exceptional adhesion to solvent inkjet, UV curable inkjet and screen printed graphics
- Provides extra “body” to finished graphics for improved application performance without the need for application tape

Description



Film: 38 micron high gloss clear Polyurethane overlamine



Adhesive: Permanent acrylic



Backing: One side coated transparent PET film, 50 micron



Outdoor life: Up to 7 years

Conversion

- | | |
|---|---|
| <input type="checkbox"/> Flat bed cutters | <input checked="" type="checkbox"/> Cold overlaminate |
| <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
- Corrugated trucks
- Cars and vans
- Marine

Application

- For processing tips and reference guides please refer to Avery Instructional Bulletins:
 - 4.06 Processing Tips for Avery Dennison DOL Films
 - 1.16 Application of MPI 1105 Easy Apply RS™ and DOL 6460 High Gloss for Vehicle Wrapping

Uses

Avery Dennison® DOL 6460 Clear Polyurethane is a premium quality, flexible film designed for use as a protective overlamine film for screen and digitally printed decals. DOL 6460 Clear offers exceptional values for applications requiring high gloss, abrasion resistance, conformability, and color durability. The gloss film features a synthetic liner that creates a super smooth high gloss finish, which provides an overall paint like finish of printed graphics.

Physical characteristics

General

| | | |
|--------------------------------|----------------------------|--------------------|
| Calliper, face film | ISO 534 | 38 micron |
| Calliper, face film & adhesive | ISO 534 | 63 micron |
| Dimensional stability | DIN 38464 | 0.4mm Max |
| Tensile Strength | DIN 53455 | 0.7-1.5 kg/cm |
| Elongation | DIN 53455 | 200% min |
| Gloss | ISO 2813, 60° | 90% |
| Adhesion, initial | ASTM 1000, stainless steel | 525 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 |
| Expected Durability ** | Vertical exposure ^ | Up to 7 years |

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

Thermal

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

Chemical

Resistant to most mild acids, alkalis, and salt solutions including water. Petroleum vapours and spills, should be cleaned immediately.

Strong solvents including Isopropyl Alcohol (IPA), Avery Dennison Surface Cleaner and strong acids can react with the urethane film. Prolonged exposure (soaked cloth, immersion, etc.) should be avoided to prevent damage to the film. Brief exposure to clean the surface is possible as long as the exposed area is wiped dry with a clean cloth immediately. For a full list of compatible solvents, please review Instructional Bulletin 1.16 Application of MPI 1105 Easy Apply RS™ for Vehicle Wrapping.

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

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.

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.