

Avery Dennison[®] DOL 1460 3D High Gloss

High Gloss Clear Super Conformable Cast Overlaminate

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 1005 SC Easy Apply RS
- Provides maximum UV and weathering protection with added abrasion and chemical resistance to printed graphics
- Wet paint-like look high gloss finish
- Brilliant transparency for bright, vivid images
- Dimensionally stable mottle reduction PET liner for easy converting
- Improves solvent and UV curable inkjet outdoor image durability up to 5 years
- 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
- Excellent adhesive contact to UV curable inks with no “silvering”

Description



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



Adhesive: Permanent acrylic



Backing: One side coated transparent PET film, 76 micron



Outdoor life: Up to 5 years

Conversion

- | | |
|---|--|
| <input type="checkbox"/> Flat bed cutters | <input checked="" type="checkbox"/> Cold overlaminating |
| <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 Dennison Instructional Bulletins:
 - 4.06 Processing Tips for Avery Dennison DOL Films

Uses

Avery Dennison DOL1460 3D High Gloss is a conformable premium quality UV stable high gloss cast overlaminate designed for use as a protective overlaminate film for digitally printed images and is suitable for durable outdoor images on irregular surfaces, such as vehicles, where high gloss finish and the ultimate conformability is necessary.

Physical characteristics

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
Durability **	Vertical exposure	Up to 5 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

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.

**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.

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.

