Avery Dennison® DOL 1080 Matte
Matte Clear Cast Overlaminate
(Formerly DOL 1100 Matte)

Features
• Maximum UV protection
• Improves inkjet outdoor image durability to up to 3 years
• Improves solvent inkjet outdoor image durability to up to 5 years
• Very good abrasion resistance
• Excellent adhesion to graphic materials
• Excellent transparency
• Matte finish for low glare outdoor graphics

Description
- Film: 50 micron matte clear UV stable cast vinyl overlaminator
- Adhesive: Permanent acrylic
- Backing: One side coated Kraft paper, 130gsm
- Outdoor life: Up to 5 years

Conversion
- Flat bed cutters
- Friction fed cutters
- Die cutting
- Thermal transfer
- Screen printing
- Cold overlaminating
- Estat printing
- Water based inkjet
- Solvent inkjet
- UV Cured inkjet

Common Applications
- Flat sided trucks
- Cars and vans
- Window graphics
- Internally illuminated signs
- Marine
- Outdoor advertising

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 1080 is a highly flexible premium quality UV stable matte cast overlaminator designed for use as a protective overlaminating film for digitally printed images and is suitable for durable outdoor images on flat or irregular surfaces.
### General

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification/Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calliper, face film</td>
<td>ISO 534</td>
<td>50 micron</td>
</tr>
<tr>
<td>Calliper, face film &amp; adhesive</td>
<td>ISO 534</td>
<td>80 micron</td>
</tr>
<tr>
<td>Dimensional stability</td>
<td>DIN 38464</td>
<td>0.2mm max</td>
</tr>
<tr>
<td>Adhesion, initial</td>
<td>ASTM 1000, stainless steel</td>
<td>525 N/m</td>
</tr>
<tr>
<td>Adhesion, ultimate</td>
<td>ASTM 1000, stainless steel</td>
<td>700 N/m</td>
</tr>
<tr>
<td>Flammability</td>
<td>Self extinguishing</td>
<td></td>
</tr>
<tr>
<td>Shelf life</td>
<td>Stored at 22°C/50-55% RH</td>
<td>2 years</td>
</tr>
<tr>
<td>Durability</td>
<td>Vertical exposure</td>
<td>Up to 5 years</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamination temperature</td>
<td>See relevant technical bulletins</td>
<td></td>
</tr>
<tr>
<td>Service temperature range</td>
<td>- 40°C to + 80°C</td>
<td></td>
</tr>
</tbody>
</table>

### 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.