

Avery Dennison® DOL 1000 Series Clear Laminates

Permanent 83# / Transparent Synthetic (on gloss only)

(formerly: DOL 1000 & 1100 – 78#)

Revision: 8 Dated: 07/16/14

Uses:

Avery Dennison® DOL 1000 Series Clear Cast Vinyl is a premium quality, flexible vinyl film designed for use as a protective overlamine film for screen and digitally printed decals. DOL 1000 Series offers an exceptional value for applications requiring varying levels of gloss for abrasion resistance, conformability, and color durability. This product can also be used as an overlamine for floor graphics. The gloss film now features a synthetic liner that creates a super smooth high gloss finish which provides an overall paint like finish of printed graphics.



Face: 2.1 mil (53 microns) cast film



Adhesive: Permanent Acrylic (clear)



Liner: 83# Kraft coated one side (on 1080)
3 mil Transparent Synthetic (on 1060 gloss)



Durability: Up to 5 years

Application Surfaces:

Flat, Flat with Rivets

Features:

- DOL 1060, high gloss finish
- DOL 1080, matte finish
- Protects image from scratches
- Enhances color and depth of image
- Superior conformability to irregular substrates
- Outstanding durability and outdoor performance
- Extremely smooth & stable liner reduces surface mottle defects and lacquer picks.
- Excellent dimensional stability
- Aids in application of printed graphic
- Excellent UV, temperature, humidity, and salt-spray resistance
- UL recognized slip resistance for floor graphics
- Meets CPSIA standards for limitations on lead and phthalates
- ASTM E84 Class 1 or A rating
- *ASTM E162 Surface Flammability (DOL 1060)*
- *ASTM E662 Smoke Density (DOL 1060)*

Conversion:

- Thermal Die-Cutting
- Flat Bed Sign-Cut
- Drum Roller Sign-Cut
- Steel Rule Die-Cutting
- Cold Overlaminating

Common Applications:

- Fleet
- Vehicle
- Marine/ Watercraft
- Backlit Signs
- Wall Murals
- POP/ Tradeshow
- Window Graphics
- Outdoor Signage
- Floor Graphics

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Physical Characteristics:

Property		Value
Caliper, face		2.1 mil (53µm)
Caliper, adhesive		1.0mil (25 µm)
Dimensional stability		<0.015"(0.4mm)
Tensile at Yield		4.0 - 8.0 lb/in (0.7–1.5 kg/cm)
Elongation		100% min.
Hunter Gloss	Measured @ 60°	DOL 1060 - 90 DOL 1080 - 5
Adhesion: 15 min.		3.0 lbs/in (525 N/m)
24 hr.		4.0 lbs/in (700 N/m)
Flammability	ASTM E-84 Class 1 or A rating	Self Extinguishing
Shelf-Life		2 years from date on label (up to 2 years unprocessed, OR process within one year and apply within 1 year of processing)
Durability	Vertical Exposure	Up to 5 years
Min. Application Temperature		40° F (4° C)
Service Temperature		-40° - 180°F (-40° - 82° C) (Reasonable range of temperatures which would be expected under normal environmental conditions).
Chemical resistance		Resistant to most mild acids, alkalis, and salt solutions including water. Resists Petroleum Vapors



FLOOR COATING AND FINISHING MATERIAL
AS TO SLIP RESISTANCE ONLY
UL Reference # 16GH

Important:

Information on physical and chemical characteristics are based on tests believed to be reliable. The values are intended only as a source of information. This information is given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of any material for their specific purpose. (Data represents average values where applicable, and is not intended for specification purposes)

Warranty:

All statements, technical information and recommendations about Avery Dennison products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that Purchaser has independently determined the suitability of such products for its purposes. Avery Dennison products are warranted to be free from defects in material and workmanship for either two years (or the period stated on the specific product information literature in effect at time of delivery, if longer) from date of shipment if said product is properly stored and applied. It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited to repair or replacement of defective product without charge at Avery Dennison's plant or at the location of product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the product.

Avery Dennison's liability for defective products shall not exceed the purchase price paid therefore by Purchaser and in no event shall Avery Dennison be responsible for any incidental or consequential damages whether foreseeable or not, caused by defects in such product, whether such damage occurs or is discovered before or after replacement or credit, and whether or not such damage is caused by Avery Dennison's negligence.

NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, OR OTHERWISE (EXCEPT AS TO TITLE), OTHER THAN THOSE EXPRESSLY SET FORTH ABOVE WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, SHALL APPLY TO PRODUCTS SOLD BY AVERY DENNISON. AVERY DENNISON SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER SUCH WARRANTIES. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

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Dimensional stability:

Is measured on a 6" x 6" (150 x 150 mm) aluminum panel to which a specimen has been applied; 72 hours after application the panel is scored in a cross pattern, exposed for 48 hours to 150°F (65°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 panel, 24 hours after the specimen has been applied under standardized conditions. Initial adhesion is measured 15 minutes after application of the specimen.

Flammability:

A specimen applied to aluminum 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.

Also tested to ASTM E-84 method for surface burning characteristics of building materials. Documentation from third party testing agency available upon request.

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.

Special Considerations:

When overlaminating UV printed graphics: Heat assist and increasing lamination pressure when applying the overlaminate will reduce the silvering that can occur when laminating UV printed graphics. Do not exceed 115° F (46° C) on the top or bottom roll. Roll pressure up to 100 psi may be used. When applying the overlaminate in this manner, use the minimum amount of unwind tension on the overlaminate to reduce stretching during application.

Related Documents:

The following Avery Dennison® literature will provide complete information to the user for proper application, storage, and other requirements and is available upon request from your Avery Dennison® representative or from the Avery Dennison® website (www.na.averygraphics.com).

Document Title	Reference Number
Substrate Cleaning and Preparation	Instructional Bulletin #1.10
Storage, Maintenance, and Cleaning of PVC Films	Instructional Bulletin #1.20
Tips for Overlaminating, Premasking & Packaging Graphics	Instructional Bulletin #5.50
Removal Instructions	Instructional Bulletin #4.10

Revisions are italicized

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