

Avery Dennison® DOL 1300 Series Clear Laminate

Permanent 83# / Transparent Synthetic (on gloss only)

(formerly: DOL 1030 – 78#)

Revision: 9 Dated: 03/25/16

Uses:

Avery Dennison DOL 1300 Series Clear Cast Vinyl is a premium quality, ultra-thin, ultra-conformable cast vinyl film designed for use as a protective overlamine film for solvent, UV, latex, and screen print inks. DOL 1300 Series offers an exceptional value for applications requiring a variety of finishes, providing excellent conformability, abrasion resistance, and durability. 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: 1.3 mil (32 microns) high gloss cast film



Adhesive: Permanent Acrylic (clear)



Liner: 83# Kraft coated one side (on 1370 & 1380)
2 mil Transparent Synthetic (on 1360 gloss)



Durability: Up to 4 years

Application Surfaces:

Flat, Flat with Rivets, Corrugations, Complex Curves (vehicle wraps)

Features:

- DOL 1360, optically clear, high gloss finish
- DOL 1370, luster finish
- DOL 1380, matte finish
- Protects image from scratches
- Enhances color and depth of image
- Ultra-conformable face
- 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
- ASTM E84 Class 1 or A rating

Conversion:

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

Common Applications:

- Fleet
- Vehicle
- Marine/ Watercraft

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- Backlit Signs
- Wall Murals
- POP/ Tradeshow
- Window Graphics
- Outdoor Signage

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Physical Characteristics:

Property	Typical Values	
Caliper, face	1.3 mil (32µm)	
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 1360 – 90 GU DOL 1370 – 30 GU DOL 1380 – 5 GU
Adhesion: 15 min.	3.0 lbs/in (525 N/m)	
24 hr.	3.5 lbs/in (613 N/m)	
Flammability	ASTM E84 Class 1 or A rating	Self Extinguishing
Shelf-Life	2 years from date of manufacture when stored at the following temperatures and humidity conditions 68°-77° F (20° - 25° C) and 50±5% R. H.	
Durability	Vertical Exposure	Up to 4 years
Min. Application Temperature	40° F (4° C)	
Service Temperature	-40° to 180°F (-40° to 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.	

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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.graphics.averydennison.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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