

Avery Dennison® DOL 1400 Series Clear Laminate

Transparent Synthetic

Revision: 5 Dated: 03/25/16

Uses:

Avery Dennison DOL 1400 Series Clear Cast Vinyl is a premium quality, ultra-thin, super-conformable cast vinyl film designed to be used with MPI 1005 SuperCast Series media for the most difficult 3D applications. The film serves as a protective overlamine film for solvent, UV, latex digital inks. DOL 1400 Series offers an exceptional value for applications requiring ultimate 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: 2 mil Transparent Synthetic



Durability: Up to 4 years

Application Surfaces:

Flat, Flat with Rivets, Corrugations, Complex Curves, Deep Recesses (Extreme vehicle wraps)

Features:

- High gloss finish
- Super conformable face with excellent conformability
- Provides ultimate conformability for extreme vehicle wrap applications (i.e. deep recesses, compound curves, etc.)
- Protects image from scratches
- Enhances color and depth of image
- Outstanding durability and outdoor performance
- Dimensionally stable mottle reduction liner for easy converting & high gloss performance.
- Excellent dimensional stability
- Aids in application of printed graphic
- When paired with MPI SuperCast, no primer is required in deep recess channel areas
- Excellent UV, temperature, humidity, and salt-spray resistance
- Reach and RoHS compliant

Conversion:

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

Product Data Sheet

Page 1 of 3



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Common Applications:

- Fleet
- Vehicle(Extreme wraps)
- Marine/ Watercraft
- Backlit Signs
- Wall Murals
- POP/ Tradeshow
- Window Graphics
- Outdoor Signage

Product Data Sheet

Page 2 of 3



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Solutions

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Physical Characteristics:

Property	Typical Value
Caliper, face	1.3 mil (32µm)
Caliper, adhesive	1.0mil (25 µm)
Dimensional stability	<0.015"(0.4mm)
Tensile at Yield	3.0 - 7.0 lb/in (0.5–1.25 kg/cm)
Elongation	150% min.
Hunter Gloss	Measured @ 60°
Adhesion: 15 min.	DOL 1460 - 90
24 hr.	3.0 lbs/in (525 N/m)
	3.5 lbs/in (613 N/m)
Flammability	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
Min. Application Temperature	Up to 4 years
Service Temperature	40° F (4° C)
	-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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Product Data Sheet

Page 4 of 3



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