

Avery Dennison[®] DOL 1400Z Series Clear Laminate

Transparent Synthetic

Revision: 0 Dated: 05/11/16

Uses:

Avery Dennison DOL 1400Z Series Clear Cast Vinyl is a premium quality, ultra-thin, super-conformable cast vinyl film designed to be used with MPI 1105 SuperCast Series media for the most difficult 3D applications. The film serves as a protective overlamine film for solvent, UV, latex digital inks. DOL 1400Z 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

Conversion:

- Cold Overlaminating

Common Applications:

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

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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° |
| | DOL 1460Z - 90 |
| Adhesion: 15 min. | 3.0 lbs/in (525 N/m) |
| 24 hr. | 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 |
| | 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. |

Data represents average values where applicable, and is not intended for specification purposes.

Warranty:

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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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