

Avery Dennison® DOL 1000Z Series Clear Laminates

Permanent 83# / Transparent Synthetic (on gloss only)

Revision: 0 Dated: 05/11/16

Uses:

Avery Dennison DOL 1000Z 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 1000Z 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. DOL 1000Z Series is designed to be used with MPI 1105 SuperCast Series print media.



Face: 2.1 mil (53 microns) cast film



Adhesive: Permanent Acrylic (clear)



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



Durability: Up to 5 years

Application Surfaces:

Flat, Flat with Rivets

Features:

- DOL 1060Z, high gloss finish
- DOL 1080Z, 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

Conversion:

- 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		Typical Values
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 1060Z - 90 DOL 1080Z - 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 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 5 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. Resists Petroleum Vapors



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

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

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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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