

Avery Dennison® DOL1000Z Series Clear Cast Laminates

Transparent Synthetic

Revision: 3 Dated: 02/02/24

Uses:

Avery Dennison® DOL1000Z 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. DOL1000Z 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. DOL1000Z Series is designed to be used with MPI1105 SuperCast Series print media.



Face: 2.1 mil (53 microns) cast film



Adhesive: Permanent Acrylic (clear)



Liner: 2 mil PET
(02/2024 changed 1080Z from 83# Kraft to PET)



Durability: Up to 5 years

Application Surfaces:

Flat, Flat with Rivets

Features:

- DOL1060Z, high gloss finish
- DOL1080Z, matte finish
- Protects image from scratches
- Enhances color and depth of image
- Superior conformability to irregular substrates
- Outstanding durability and outdoor performance
- Excellent dimensional stability
- Aids in application of printed graphic
- Excellent UV, temperature, humidity, and salt-spray resistance
- ASTM E-84 Type 1 or A rating
- Meets UL 410 Standard for slip resistance of floor surface materials

Conversion:

- Cold Overlaminating

Common Applications:

- Fleet
- Vehicle
- Marine/ Watercraft
- Backlit
- POP / Trade Show
- Wall Murals
- Floor Graphics
- Window Graphics
- Outdoor Signage

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Physical Characteristics:

Property	Measurement	Typical Values
Caliper, face		2.1 mil (53 µm)
Caliper, adhesive		1.0 mil (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.
Gloss	Hunter Gloss @ 60 degrees	DOL1060Z - 90 GU DOL1080Z - 5 GU
Adhesion:	15 min 24 hr	3.0 lbs/in (525 N/m) 4.0 lbs/in (700 N/m)
Flammability	ASTM E-84	Self Extinguishing Class 1 or A rating
Shelf-Life		2 years from the 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 Floor Graphics	Up to 5 years see ICS Performance Guarantee for printer specific durability 6 months (normal and expected wear) see ICS Performance Guarantee for Indoor Floor Graphics for details
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
Slip Resistance	UL 410	 FLOOR COATING AND FINISHING MATERIALS TO SLIP RESISTANCE ONLY UL Reference #14621
Compliance		California Proposition 65

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
Warranty of Films	Instructional Bulletin #1.30
Cleaning and Maintenance of Vehicle Wraps	Instructional Bulletin #1.50
Removal Instructions	Instructional Bulletin #4.10
Tips for Overlaminating, Premasking & Packaging Graphics	Instructional Bulletin #5.50

Revisions are italicized

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