

Avery Dennison® DOL1000Z Series Clear Cast Laminates

83 # / Transparent Synthetic (on gloss only)

Revision: 1 Dated: 05/08/19

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
- 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

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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Solutions

www.graphics.averydennison.com
Customer Service: 800-282-8379

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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 | DOL 1060Z - 90 GU DOL 1080Z - 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 | <i>Self Extinguishing</i> <i>Class 1 or A rating</i> |
| 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 | Up to 5 years <i>see ICS Performance Guarantee for printer specific durability</i> |
| 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 |
| Compliance | | California Proposition 65 |



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

Revisions are italicized

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