

Avery Dennison® DOL1300Z Series Clear Cast Laminates

Transparent Synthetic

Revision: 2

Dated: 02/08/24

Uses:

Avery Dennison® DOL1300Z Series Clear Cast Vinyl is a premium quality, ultra-thin, ultra-conformable cast vinyl film designed for use as a protective overlamine film for solvent, UV, latex, and screen print inks. DOL1300Z Series offers an exceptional value for applications requiring a variety of finishes, providing excellent 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. DOL1300Z Series is designed to be used with MPI1105 SuperCast Series print media.



Face: 1.3 mil (32 microns) cast film



Adhesive: Permanent Acrylic (clear)



Liner: 2 mil PET
(02/2024 changed 1370Z & 1380Z from 83# Kraft to PET)



Durability: Up to 4 years

Application Surfaces:

Flat, Flat with Rivets, Corrugations, Complex Curves (vehicle wraps)

Features:

- DOL1360Z, optically clear, high gloss finish
- DOL1370Z, luster finish
- DOL1380Z, matte finish
- Protects image from scratches
- Enhances color and depth of image
- Ultra-conformable face
- Outstanding durability and outdoor performance
- Excellent dimensional stability
- ASTM E-84 Type 1 or A rating

Conversion:

- Cold Overlaminating

Common Applications:

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

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Physical Characteristics:

Property	Measurement	Typical Values
Caliper, face		1.3 mil (32 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	DOL1360Z – 90 GU DOL1370Z – 30 GU DOL1380Z – 5 GU
Adhesion:	15 min 24 hr	3.0 lbs/in (525 N/m) 3.5 lbs/in (613 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	Up to 4 years see JCS Performance Guarantee for printer specific durability
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

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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