

# PRODUCT DATA SHEET

## Avery Dennison® DOL 1400 Z Series

Issued: 11/2020

### Introduction

Avery Dennison DOL 1400 Z series cast overlaminates are premium quality, ultra-flexible films designed to be used as protective overlaminate films for digitally printed images.

The films offer exceptional value for applications requiring enhanced colours and durability. Avery Dennison DOL 1400 Z series overlaminate films have specially been developed to be used for vehicle graphics.

Due to the films' excellent durability and supreme conformability, these overlaminates are highly recommended for use with Avery Dennison MPI cast media for applications on rivets and corrugations and/or for prolonged outdoor use.

### Conversion

For processing tips and reference guides please refer to Technical Bulletins:

- » 5.3 Recommended combinations of Avery Dennison overlaminates and Avery Dennison Digital Print Media
- » 5.4 Processing tips for Avery Dennison DOL films

### Recommendations

Protective overlaminate film for digital printed images for indoor and outdoor use. Avery Dennison DOL 1400 Z series cast overlaminates can be used in combination with Avery Dennison MPI cast media for application on corrugated or riveted surfaces.

- » Vehicle graphics and vehicle wrapping
- » Interior & exterior signs
- » Durable promotional and point of sale advertising
- » All permanent applications requiring excellent conformability

### Features

- » Premium quality, ultra-flexible, cast vinyl
- » DOL 1460 Z Gloss enhances image colours
- » Smooth, low glare matt finish with DOL 1480 Z Matt
- » NEW Lustre DOL 1470 Z for more customisation choices
- » Protects against UV radiation and abrasion
- » Excellent conformability to irregular substrates in combination with MPI cast media



#### Face Film

Premium quality 30 micron clear cast vinyl

DOL 1460 Z Gloss DOL 1470 Z Lustre  
DOL 1480 Z Matt



#### Adhesive

Permanent, acrylic based



#### Backing

White bleached kraft paper, 130 g/m2



#### Durability

6 years



#### Shelf Life

2 years

## Physical Characteristics

	Test method <sup>1</sup>	Results
<b>Product</b>		
Caliper, facefilm (micron)	ISO 534	30
Caliper, facefilm + adhesive (micron)	ISO 534	50
Gloss (GU)		
DOL 1460 Z Gloss	ISO 2813, 20°	70
DOL 1470 Z Lustre	ISO 2813, 60°	30
DOL 1480 Z Matt	ISO 2813, 80°	20
Dimensional stability (mm max.)	FINAT FTM 14	0.2
Shelf life (years)	Stored at 22° C/50-55 % RH	2
Durability <sup>2</sup> (years)	Vertical exposure	6
Fire Classification Rating	EN 13501-1	B-s1, d0
<b>Adhesive</b>		
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	400
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	500
<b>Temperature range</b>		
Application temperature (min °C)		see TB 5.4
Service temperature (°C to +°C)		-40 - +80
<b>Chemical properties<sup>3</sup></b>		
Chemical resistance	Mild acids	No effect
Solvent resistance	Mild alkalis	No effect
Solvent resistance	Applied to aluminium	No effect exposed to: oils, greases, aliphatic solvents, motor oils, heptane, kerosene and JP-4 fuel.

## Important

Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of this document, the English version shall be prevailing and leading.

1) Test methods: More information about our test methods can be found on our website.

2) Durability: The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.

3) Prolonged immersion in gasoline and similar fluids is not recommended.

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