

Avery® DOL 1400 Series

Issued: 02-04-2013

Introduction

Avery DOL 1400 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 DOL 1400 series overlaminate films have especially been developed to be used for vehicle graphics. Due to the films' excellent durability and supreme conformability, Avery DOL 1400 series overlaminates are highly recommended for use with Avery MPI cast media for applications on rivets and corrugations and/or for prolonged outdoor use.

Description

Film : premium quality 30 micron clear cast vinyl
DOL 1460 Gloss
DOL 1480 Matt

Adhesive : permanent, acrylic based

Backing : white bleached kraft paper, 130 g/m²

Conversion

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

- 5.3 Recommended combinations of Avery overlaminates and Avery Digital Print Media.
- 5.4 Processing tips for Avery DOL films.
- 5.29 Application of overlaminated Avery MPI cast films on irregular substrates.

Uses

Protective overlaminate film for digital printed images for indoor and outdoor use. Avery DOL 1400 series cast overlaminates can be used in combination with Avery 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 Gloss enhances image colours
- Smooth, low glare matt finish with DOL 1480 Matt
- Improves durability of image (up to 5 years)
- Protects against UV radiation and abrasion
- Excellent conformability to irregular substrates in combination with MPI cast media
(N.B.: for corrugations only in combination with MPI 1005 Supercast series and MPI 1900 series)

Note

The durability of a printed image always depends on the toner/ink, film, type of overlaminate, processing and exposure conditions. The film's surface can show alterations in matting due to contact pressure or other external influences. Please note that increased roller temperatures in combination with higher winding tension could lead to unwanted elongation of the film. Winding tension should therefore be carefully monitored and kept at an appropriate level.

Physical properties

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	30 micron
Caliper, facefilm + adhesive	ISO 534	50 micron
Gloss		
DOL 1460 Gloss	ISO 2813, 20°	70 %
DOL 1480 Matt	ISO 2813, 85°	20 %
Dimensional stability	FINAT FTM 14	max. 0.2 mm
Adhesion, initial	(ASTM 1000), stainless steel	400 N/m
Adhesion, ultimate	(ASTM 1000), stainless steel	500 N/m
Shelf life	Stored at 230C/50-55% RH	2 years
Durability laminate only ²	Vertical exposure	5 years

Temperature range

Features	Results
Application temperature temperature:	See Technical Bulletin 5.29 - 40 °C to + 80 °C

Chemical properties

Features	Results
Chemical resistance	Resistant to most petroleum based oils, greases and aliphatic solvents. Resistant to mild acids, alkalis, salts.

Prolonged immersion in gasoline and similar fluids is not recommended.

Important

Information on physical and chemical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. 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.

Warranty

Avery® branded materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give any guarantee, warranty, or make any representation contrary to the foregoing.

All Avery® branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

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.