

## PRODUCT DATA SHEET



# Avery® DOL 4000 Crystal Clear

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### Introduction

Avery DOL 4000 Crystal Clear is a premium quality, flexible, high Crystal Clear cast vinyl film designed for use as a protective overlaminating film for digitally printed images, especially for Perforated Window Films. Avery DOL 4000 Crystal Clear offers high transparency resulting in excellent see-through properties when used form Perforated Window films.

The combination of PWF and DOL Crystal Clear is suitable for most curved windows.

### Description

Face-film : premium quality 50 micron highly transparent gloss cast vinyl  
Adhesive : permanent, acrylic based  
Backingpaper : 75 micron, siliconized polyester

### 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.

### Features

- Premium quality, flexible, high gloss cast vinyl.
- Excellent properties when used in combination with PWF on curved windows
- Highly transparent.
- Improves durability of image.
- Protects against UV radiation and abrasion.

### Note

The durability of a printed image always depends on the toner/ink, film, used overlaminate, processing and exposure conditions.



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## PRODUCT CHARACTERISTICS

Avery® DOL 4000 Crystal Clear

### Physical properties

#### Features

Caliper, facefilm  
Caliper, facefilm + adhesive  
Gloss  
Dimensional stability  
Adhesion, initial  
Adhesion, ultimate  
Shelf life  
Durability

#### Test method<sup>1</sup>

ISO 534  
ISO 534  
ISO 2813, 20<sup>0</sup>  
DIN 38464  
(ASTM 1000), stainless steel  
(ASTM 1000), stainless steel  
Stored at 23<sup>0</sup>C/50-55% RH  
Vertical exposure

#### Results

50 micron  
80 micron  
70 %  
max. 0.2 mm  
525 N/m  
700 N/m  
2 years  
3 years

### Temperature range

#### Features

Lamination temperature  
Service temperature

#### Results

See Technical Bulletin  
-40°C to +80°C

### Chemical properties

#### Features

Chemical resistance

#### Test method<sup>1</sup>

#### Results

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.



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