

Avery[®] UC MPI 1005 Gloss Opaque

LTR Tissue Back

(formerly: MPI 1005 / 100# TB)

Revision: New Dated: 02/10/2009

Uses:

Avery UC MPI 1005 Gloss Opaque Cast Vinyl is a premium gloss opaque vinyl designed for use in fleet marking applications and associated graphics programs. UC MPI 1005 Gloss Opaque offers exceptional value for applications requiring extended durability. Avery's Long Term Removable adhesive also features clean removal at the end of the graphic life when applied to many commercial fleet vehicle surfaces.



Face: 2.1 mil (53 microns) high gloss cast film



Adhesive: Long Term Removable Acrylic (gray)



Liner: 100# Tissue Back



Durability: Up to 9 years (unprinted)

Application Surfaces:

Flat, Flat with Rivets, Corrugations, Complex Curves

Features:

- High gloss finish
- Superior conformability to irregular substrates
- Outstanding durability and outdoor performance
- Dimensionally stable liner for easy converting
- Excellent dimensional stability
- Long term removable provides permanent adhesion, but removes cleanly
- ICC profiles available on Avery website (www.iccprofiles.averygraphics.com)

Conversion:

- Thermal Die-Cutting
- Flat Bed Sign-Cut
- Drum Roller Sign-Cut
- Steel Rule Die-Cutting

- Thermal Transfer
- Screen Printing
- Cold Overlaminating
- Water based inkjet

- Solvent based inkjet
- Mild/Eco Solvent inkjet
- UV inkjet

Common Applications:

- Fleet
- Vehicle
- Marine/ Watercraft

- Backlit Signs
- Wall Murals
- POP/ Tradeshow

- Window Graphics
- Outdoor Signage
- Floor Graphics

Product Data Sheet

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Physical Characteristics:

Property		Value
Caliper, face		2.1 mil (53 µm)
Caliper, adhesive		1.0mil (25 µm)
Dimensional stability		<0.15"(0.4mm)
		Note: Ink loads in excess of 250% may cause increased shrinkage of the printed film.
Tensile at Yield		4.0 - 8.0 lb/in (0.7-1.5 kg/cm)
Elongation		100% min.
Gloss	Hunter Gloss @ 60	90
Adhesion: 15 min.		2.7 lbs/in (473 N/m)
24 hr.		3.5 lbs/in (613 N/m)
1 week		4.4 lbs/in (770 N/m)
Flammability		Self Extinguishing
Shelf-Life		1 year
Durability	Vertical Exposure	Unprinted – 9 years Printed – Up to 5 years
Min. Application Temperature		45° F (7° C) Flat & Flat w/Rivets 50° F (10° C) Corrugations
Service Temperature		-50° - 180°F (-45° - 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.

Important:

Information on physical and chemical characteristics are based on tests believed to be reliable. The values are intended only as a source of information. This information is given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of any material for their specific purpose. (Data represents average values where applicable, and is not intended for specification purposes)

Warranty:

All statements, technical information and recommendations about Avery Dennison products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that Purchaser has independently determined the suitability of such products for its purposes. Avery Dennison products are warranted to be free from defects in material and workmanship for either one year (or the period stated on the specific product information literature in effect at time of delivery, if longer) from date of shipment if said product is properly stored and applied. It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited to repair or replacement of defective product without charge at Avery Dennison's plant or at the location of product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the product.

Avery Dennison's liability for defective products shall not exceed the purchase price paid therefore by Purchaser and in no event shall Avery Dennison be responsible for any incidental or consequential damages whether foreseeable or not, caused by defects in such product, whether such damage occurs or is discovered before or after replacement or credit, and whether or not such damage is caused by Avery Dennison's negligence.

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Dimensional stability:

Is measured on a 6" x 6" (150 x 150 mm) aluminum panel to which a specimen has been applied; 72 hours after application the panel is scored in a cross pattern, exposed for 48 hours to 150°F (65°C), after which the shrinkage is measured.

Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel panel, 24 hours after the specimen has been applied under standardized conditions. Initial adhesion is measured 15 minutes after application of the specimen.

Flammability:

A specimen applied to aluminum is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Revisions are italicized

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Patent Info: May be covered by one or more patents US6,630,049, US7,060,351, US7,344,618, US7,332,205, EP1276605, EP1282472 and other US and foreign patents pending and others used under license.

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PRODUCT DATA SHEET



Avery® DOL 1000 Durable Series

issued: 23/05/2007

Introduction

Avery DOL 1000 Series is a premium quality, flexible, high gloss cast laminate film designed for use as a protective overlaminating film for digitally printed images, especially on vinyl films. Avery DOL 1000 Series in combination with our cast vinyl films offer the best protection against colour fading, UV radiation and abrasion which improves the durability of the image.

Description

Face-film : premium quality 50 micron cast vinyl
DOL 1000 Gloss Clear
DOL 1100 Matt Clear

Adhesive : permanent, acrylic based
Backingpaper : 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.

Uses

Protective overlaminating film for digital printed images on flat or curved substrates. For indoor and outdoor use.

Do NOT use combination of Avery digital media and Avery DOL 1000 Series on corrugated or riveted surfaces.

Features

- Premium quality, flexible, durable cast laminate.
- Enhances colours of image.
- Improves durability of image (up to 5 years).
- 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 1000 Series

Physical properties

Features

Caliper, facefilm
Caliper, facefilm + adhesive
Gloss

Test method¹

ISO 534
ISO 534

Results

50 micron
80 micron

DOL 1000 Gloss

ISO 2813, 20⁰

70 %

DOL 1100 Matt

ISO 2813, 85⁰

25 %

Dimensional stability

DIN 38464

max. 0.2 mm

Adhesion, initial

(ASTM 1000), stainless steel

525 N/m

Adhesion, ultimate

(ASTM 1000), stainless steel

700 N/m

Shelf life

Stored at 23⁰C/50-55% RH

2 years

Durability*

Vertical exposure

7 years

Temperature range

Features

Lamination temperature
Service temperature

Results

See Technical Bulletin
-40°C to +80°C

Chemical properties

Features

Chemical resistance

Test method¹

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. In case of any ambiguities or differences between the English and foreign versions of these Conditions, the English version shall be controlling.

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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