Avery Dennison® MPI 2803 Gloss

Gloss White Calendered Vinyl Grey Permanent

Features

- Excellent printability on eco-solvent, solvent, latex and UV curable printers
- Excellent price/performance ratio for outdoor promotional graphics
- High opacity for good overposting performance
- Excellent dimensional stability
- High gloss finish
- Excellent outdoor durability and performance

Description

Film: 75 micron gloss white polymeric calendered vinyl

Adhesive: Grey permanent acrylic

Backing: One side coated Kraft paper, 126g/m2

Outdoor life**: 5 years (unprinted)

Application surface: Flat, simple curves

Conversion+

- ☐ Flat bed cutters
- ☐ Friction fed cutters
- ☐ Die cutting
- ☐ Thermal transfer
- ☐ Screen printing
- ☐ Offset printing
- ☐ Cold overlaminating
- ☐ Electrostatic printing
- ■ **Latex inkjet**
- ■ **Eco solvent inkjet**
- ■ **Solvent inkjet**
- ■ **UV curable inkjet**

+Always test with your combination of printer and inks prior to commercial use.

Common Applications

- Flat sided trucks
- Internal and external graphics
- Overposting
- Promotional graphics

Application

- Avery Graphics recommends a maximum total ink limit of 270% to ensure optimal performance.
- Refer to Instructional Bulletins 1.01, 1.4, 4.06 & 4.14 for printing, laminating and application instructions.
- Avery ICC profiles available on Avery Dennison Website (http://avery-ap.color-base.com/)

Uses

Avery MPI 2803 is a gloss white polymeric calendered vinyl film designed for ease of application on a wide range of intermediate outdoor and general graphics applications, where good outdoor durability and good print quality are required.

Physical characteristics

General

Calliper, face film	ISO 534	75 micron
Calliper, face film and adhesive	ISO 534	95 micron
Dimensional stability	DIN 30646	0.3 mm max
Tensile strength	DIN 53455	***
Gloss	Hunter Gloss at 60°	***
Adhesion, initial	FINAT FTM-1, stainless steel	480 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	720 N/m
Flammability	ASTM E84 Class 1 or A rating	Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	2 years
Accelerated aging	DIN 53387 1500 hours exposure	No negative impact on film performance
Expected Durability **	Vertical exposure ^	Up to 5 years unprinted

^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information

Thermal

Application temperature		Minimum: + 10°C
Temperature range		- 40°C to + 80°C
Heat resistance	3 weeks exposure at 80 °C	No negative impact on film performance

Chemical

Chemical resistance	Resistant to most mild acids, alkalis, and salt solutions.

Note:

Materials have to be properly dried and cured before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

Important

Information on physical 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 any material for their specific use.

All technical data is subject to change without prior notice.

Warranty

Avery Dennison® 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 guarantee, warranty, or make any representation contrary to the foregoing.

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

****Expected Durability**
The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within Zone 1 of the Avery Dennison zone system, in outdoor vertical exposure conditions.
The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films. In case of films used in areas of high temperatures or humidity, high altitudes and industrially polluted areas the performance will be further reduced.

Expected Durability and Warranted Period Definitions
Expected durability is the expected period of time defined in the product data sheet, the product should, but is not warranted to, perform satisfactorily when applied in vertical exposure conditions as defined in Instructional Bulletin 1.30. The warranted period as defined in the appropriate ICS Performance Guarantee Bulletin, is the maximum period of time Avery Dennison will warrant the finished products performance in accordance with ICS Performance Guarantee Terms and Conditions 1.0, provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines.

*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.

Test Methods

Dimensional stability:
Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°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 or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

Flammability:
A specimen applied to aluminium 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.

Corrosion Resistance:
A specimen applied to aluminium is exposed to saline mist (5% salt) at 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.