

Avery Dennison[®] MPI 2920 Matte

Matte White Removable Polymeric Calendered Vinyl

Revision 1

Introduction

Avery Dennison MPI 2920 Matte is a matte white polymeric calendered vinyl film designed for ease of application on a wide range of intermediate outdoor, general signage applications and vehicles graphics with flat or simple curved surfaces, and where good outdoor durability and print quality are required.

Common Applications

- Outdoor signage
- Point of purchase
- Outdoor advertising
- Indoor advertising
- Exhibition graphics
- Vehicle Graphics (Flat or Simple Curved Surfaces)

Application surface

Flat, simple curves



Face Film

80 micron matte white polymeric calendered vinyl



Backing

Two side PE coated paper, 140 g/m²



Adhesive

Clear permanent acrylic



Outdoor life**

Up to 5 years (unprinted)

Features

- Matte white polymeric calendered PVC film offering a cost effective solution for intermediate outdoor graphic needs
- Easy Apply™ adhesive technology with air egress channels to easily eliminate bubbles and wrinkles during application
- Excellent printability across a range of technology and inks with great image clarity and colour pop
- Matte finish for low glare applications
- StaFlat™ liner provides excellent handling and converting properties
- Reliable outdoor durability and performance
- Very good dimensional stability after application
- Compatible with the Avery Dennison DOL 2000/2800/2900 series overlaminates

Conversion⁺

- Flatbed 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.

Application

- Avery Dennison Graphics recommends a maximum total ink limit of 270% to ensure optimal performance.
- Dry application only. Do not use water and detergent or a commercial application fluid to position the graphic.
- Refer to Instructional Bulletins 1.01, 1.4, 4.06 & 4.14 for printing, laminating and application instructions.

Notes

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.

General

| | | |
|--------------------------------|-------------------------------------|---------------------------|
| Calliper, face film | ISO 534 | 80 micron |
| Calliper, face film & adhesive | ISO 534 | 105 micron |
| Gloss | ISO 2813 @ 85° | 33 GU |
| Dimensional stability | FTM 14 | 1 mm max |
| Adhesion, 20 mins | <i>FINAT FTM-1, Stainless steel</i> | 480 N/m |
| Adhesion, 24 hrs | <i>FINAT FTM-1, Stainless steel</i> | 600 N/m |
| Flammability | | Self extinguishing |
| Shelf life | Stored at 22° C / 50-55% RH | 2 years |
| 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 +82°C |

Chemical

| | | |
|----------------------|----------------------------|--|
| Humidity resistance | 120 hours exposure | No effect |
| Corrosion resistance | 120 hours exposure | No contribution to corrosion |
| Water resistance | 48 hour immersion | No effect |
| Chemical resistance | Mild acids Mild alkalis | No effect No effect |
| Solvent resistance | Applied to aluminium | No effect exposed to: Oils, greases, aliphatic solvents, motor oils, heptanes, kerosene, JP-4 fuel |

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.

*Compatible with most printer and ink combinations. Test prior to use.

Testing 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.



Avery Dennison warrants that its Products meet its specifications. Avery Dennison gives no other express or implied guarantees or warranties with respect to the Products, including but not limited to, any implied warranties of merchantability, fitness for any particular use and/or non infringement. All Avery Dennison products are sold with the understanding that the purchaser has independently determined the suitability of such products for its purposes. The period of warranty is one (1) year from the date of shipment unless expressly provided otherwise in the product data sheet. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <https://graphicsap.averydennison.com/terms>. Avery Dennison's aggregate liability to Purchaser, whether for negligence, breach of contract, misrepresentation or otherwise, shall in no circumstances exceed the price of the defective, non-conforming, damaged or undelivered Products which give rise to such liability as determined by net price invoices to Purchaser in respect of any occurrence or series of occurrences. In no circumstances shall Avery Dennison be liable to Purchaser for any indirect, incidental or consequential loss, damage or injury, including without limitation, loss of anticipated profits, goodwill, reputation, or losses or expenses resulting from third party claims. © 2022 Avery Dennison Corporation. All rights reserved. Avery Dennison and all other Avery Dennison brands, this publication, its content, product names and codes are owned by Avery Dennison Corporation. All other brands and product names are trademarks of their respective owners. This publication must not be used, copied or reproduced in whole or in part for any purposes other than marketing by Avery Dennison.