

Avery® HP MPI 2120 / 2122 Matte

Permanent / Removable StaFlat

(formerly: MPI 2010 / 2012)

Revision: New Dated: 02/10/2009

Uses:

Avery HP MPI 2120 and 2122 Matte films are flexible calendered vinyl films. Both HP MPI 2120 and 2122 offer exceptional value for applications requiring premium calendered film durability combined with a permanent or removable adhesive performance.



Face: 3.4 mil (86 microns) low gloss calendered



Adhesive: Acrylic
MPI 2120 - Permanent (clear)
MPI 2122 - Removable (gray)



Liner: 90# StaFlat



Durability: Up to 6 years (unprinted)

Application Surfaces:

Flat, simple curves (restricted to non-spill areas)

Features:

- 100% opacity, completely covers whatever is underneath
- Matte finish
- Outstanding durability and outdoor performance
- Great image clarity and color pop
- Dimensionally stable liner for easy converting
- ICC profiles available on Avery website (www.iccprofiles.averygraphics.com)

Conversion:

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Thermal Die-Cutting | <input type="checkbox"/> Thermal Transfer | <input checked="" type="checkbox"/> Solvent based inkjet |
| <input checked="" type="checkbox"/> Flat Bed Sign-Cut | <input type="checkbox"/> Screen Printing | <input checked="" type="checkbox"/> Mild/Eco Solvent inkjet |
| <input checked="" type="checkbox"/> Drum Roller Sign-Cut | <input type="checkbox"/> Cold Overlaminating | <input checked="" type="checkbox"/> UV inkjet |
| <input checked="" type="checkbox"/> Steel Rule Die-Cutting | <input type="checkbox"/> Water based inkjet | |

Common Applications:

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Fleet | <input type="checkbox"/> Backlit Signs | <input type="checkbox"/> Window Graphics |
| <input type="checkbox"/> Vehicle | <input checked="" type="checkbox"/> Wall Murals | <input checked="" type="checkbox"/> Outdoor Signage |
| <input type="checkbox"/> Marine/ Watercraft | <input checked="" type="checkbox"/> POP/ Tradeshow | <input checked="" type="checkbox"/> Floor Graphics |

Product Data Sheet

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Avery® HP MPI 2120 / 2122 Matte

Permanent / Removable StaFlat

(formerly: MPI 2010 / 2012)

Revision: New Dated: 02/10/2009



Physical Characteristics:

Property		Value
Caliper, face		3.4 mil (86 µm)
Caliper, adhesive		1.0mil (25 µm)
Dimensional stability		<0.065"(1.651 mm)
		Note: Ink loads in excess of 250% may cause increased shrinkage of the printed film.
Tensile at Yield		
Elongation		
Gloss	Hunter Gloss @ 60	<16
Adhesion: 15 min.	Removable	1.8 lbs/in (438 N/m)
	Permanent	4.7 lbs/in (831 N/m)
Flammability		Self Extinguishing
Shelf-Life		1 year
Durability	Vertical Exposure	Unprinted – 6 years Printed – Up to 5 years
	Min. Application Temperature	50° F (10° C)
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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Graphics & Reflective Products Division
250 Chester Street
Painesville, OH 44077



AnswerLine: 800-231-4654
www.averygraphics.com

Avery[®] HP MPI 2120 / 2122 Matte

Permanent / Removable StaFlat

(formerly: MPI 2010 / 2012)

Revision: New Dated: 02/10/2009



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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Graphics & Reflective Products Division
250 Chester Street
Painesville, OH 44077



AnswerLine: 800-231-4654
www.averygraphics.com

Avery® HP MPI 2102 / 2103 Gloss

Removable/Permanent StaFlat

(formerly: new products)

Revision: 1

Dated: 09/14/2009

Uses:

Avery HP MPI 2102 and 2103 Gloss films are flexible calendared vinyl films. Both HP MPI 2102 and 2103 offer exceptional value for applications requiring premium calendared film durability combined with a permanent or removable adhesive performance.



Face: 3.1 mil (80 microns) low gloss calendared



Adhesive: Acrylic
MPI 2103 - Permanent (gray)
MPI 2102 - Removable (gray)



Liner: C1S Kraft



Durability: Up to 5 years (unprinted)

Application Surfaces:

Flat, simple curves (restricted to non-spill areas)

Features:

- 100% opacity, completely covers whatever is underneath
- Gloss finish
- Outstanding durability and outdoor performance
- Great image clarity and color pop
- Dimensionally stable liner for easy converting
- MPI2102 Removable up to two (2) years
- 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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Avery® HP MPI 2102 / 2103 Gloss

Removable/Permanent StaFlat

(formerly: new products)

Revision: 1

Dated: 09/14/2009



GRAPHICS.

Physical Characteristics:

Property		Value
Caliper, face		3.1 mil (80 µm)
Caliper, adhesive		1.5mil (40 µm)
Dimensional stability		<0.065"(1.651 mm)
		Note: Ink loads in excess of 250% may cause increased shrinkage of the printed film.
Elongation		
Gloss	Hunter Gloss @ 60	<16
Adhesion:	Removable	
	15min.	1.3 lbs/in (240 N/m)
	24 hrs.	1.7 lb/in (300 N/m)
	Permanent	
	15 min.	2.8 lbs/in. (500 N/m)
	24 hrs.	3.4 lbs/in (600 N/m)
Flammability		Self Extinguishing
Shelf-Life		1 year
Durability	Vertical Exposure	Unprinted – 5 years
Min. Application Temperature		+50°F (+10°C)
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.

Removable adhesive is not cleanly removable from nitrocellulose paints, ABS, polystyrene, or PVC.

Important:

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Removable/Permanent StaFlat

(formerly: new products)

Revision: 1 Dated: 09/14/2009



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.

Also tested to ASTM E-84 method for surface burning characteristics of building materials. Documentation from third party testing agency available upon request.

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:

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