

Avery® HP IPM 2120 Easy Apply™

Permanent StaFlat

(formerly: IPM 2000 EZ)

Revision: New Dated: 02/10/2009

Uses:

Avery HP IPM 2120 Easy Apply matte digital film is a topcoated calendered vinyl film designed for excellent ink jet print receptivity on many popular wide format ink jet printers. This product has Avery Dennison's Easy Apply technology which offers the benefits of reduced wrinkling and air entrapment inherent in the application of graphics.



Face: 3.2 mil (80 microns) low gloss calendered with aqueous topcoat



Adhesive: Permanent Acrylic (clear)



Liner: 90# StaFlat



Durability: Up to 4 years (unprinted)

Application Surfaces:

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

Features:

- Air egress technology helps eliminate wrinkles and bubbles
- Repositionability allows for repositioning of graphic without great force
- Low gloss finish
- Outstanding durability and outdoor performance
- Dimensionally stable liner for easy converting
- ICC profiles available on Avery website (www.iccprofiles.averygraphics.com)

Conversion:

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

Common Applications:

- | | | |
|---|--|---|
| <input type="checkbox"/> Fleet | <input type="checkbox"/> Backlit Signs | <input type="checkbox"/> Window Graphics |
| <input type="checkbox"/> Vehicle | <input 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

Page 1 of 3



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Physical Characteristics:

Property		Value
Caliper, face		3.2 mil (80 µm)
Caliper, adhesive		1.0mil (25 µm)
Dimensional stability		<0.065"(1.651 mm)
Tensile at Yield		
Elongation		
Gloss	Hunter Gloss @ 60	
Adhesion: 15 min.		4.75 lbs/in (831 N/m)
Flammability		Self Extinguishing
Shelf-Life		1 year
Durability	Vertical Exposure	6 months no laminate Up to 4 years with DOL 1060
Min. Application Temperature		45° F (7° 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.

NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, OR OTHERWISE (EXCEPT AS TO TITLE), OTHER THAN THOSE EXPRESSLY SET FORTH ABOVE WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, SHALL APPLY TO PRODUCTS SOLD BY AVERY DENNISON. AVERY DENNISON SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER SUCH WARRANTIES. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

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Page 2 of 3

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www.averygraphics.com

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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

Avery Dennison is a registered trademark of Avery Dennison Corp.

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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Page 3 of 3

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