

# Avery Dennison<sup>®</sup> HP MPI 2050Matte Translucent

Permanent StaFlat™

(formerly: MPI 2150)

Revision: 5 Dated: 11/26/13

## Uses:

Avery Dennison<sup>®</sup> HP MPI 2050 Matte Translucent Calendered film is a premium calendered film with a permanent adhesive. HP MPI 2050 Matte Translucent is the answer for self-adhesive, illuminated signage with great image quality, superior stability, and long-term.



**Face:** 3.4 mil (86 microns)matte



**Adhesive:** Permanent Acrylic (clear)



**Liner:** 90# StaFlat™



**Durability:** Up to 6years (unprinted)

**Application Surfaces:**

Flat, simple curves

## Features:

- Consistent printability
- Great image clarity and color pop
- Translucent, provides light transmission when applied over a light source
- Excellent shrink resistance, even with heavy ink loads
- Dimensionally stable liner for easy converting
- ICC profiles available on Avery Dennison website ([www.iccprofiles.averygraphics.com](http://www.iccprofiles.averygraphics.com))
- ASTM E84 Class 1 or A rating

## Conversion:

- Thermal Die-Cutting
- Flat Bed Sign-Cut
- Drum Roller Sign-Cut
- Steel Rule Die-Cutting
- Screen Printing\*
- Solvent based inkjet
- Mild/Eco Solvent inkjet
- UV inkjet
- Latex Inkjet

\*User must determine compatibility of screen printing ink system.

## Common Applications:

- Backlit Signs

## Product Data Sheet

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## Physical Characteristics:

Property	Value		
Caliper, face	3.4 mil (86µm)		
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	20	
Adhesion: 15 min.	Stainless	4.0lbs/in (700 N/m)	
	Polycarbonate	4.0 lbs/in (700 N/m)	
	24 hr.	Stainless	4.1lbs/in (718 N/m)
		Polycarbonate	6.0lbs/in (1050 N/m)
Flammability	ASTM E84 Class 1 or A rating	<u>Self Extinguishing</u>	
Shelf-Life	<i>2 years from date on label (up to 2 years unprocessed, OR process within one year and apply within 1 year of processing)</i>		
Durability	Vertical	Unprinted – 6 years	
	Exposure	Printed – Up to 5 years	
Min. Application Temperature	40° F (4° 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 *two years* (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.

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:**

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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