

# Avery® HP MPI 2050 Matte Translucent

Permanent StaFlat

(formerly: MPI 2150)

Revision: 4 Dated: 12/08/2010

## Uses:

Avery 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 6 years (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 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

- Thermal Transfer
- Screen Printing\*
- Cold Overlaminating
- Water based inkjet

- Solvent based inkjet
- Mild/Eco Solvent inkjet
- UV inkjet
- Latex Inkjet

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

## Common Applications:

- Fleet
- Vehicle
- Marine/ Watercraft

- Backlit Signs
- Wall Murals
- POP/ Tradeshow

- Window Graphics
- Outdoor Signage
- Floor Graphics



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## 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	20
Adhesion: 15 min.	Stainless	4.0 lbs/in (700 N/m)
	Polycarbonate	4.0 lbs/in (700 N/m)
	24 hr. Stainless	4.1 lbs/in (718 N/m)
	Polycarbonate	6.0 lbs/in (1050 N/m)
Flammability	ASTM E84 Class 1 or A rating	<u>Self Extinguishing</u>
Shelf-Life	1 year	
Durability	Vertical Exposure	Unprinted – 6 years 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:

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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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