# Avery Dennison® MPI 1106 Hi Tack Easy Apply™*

Gloss White Cast Hi Tack with Easy Apply™ Technology

## Features:

- Gloss white opaque premium cast conformable film, designed for use in demanding applications
- Easy Apply ™ adhesive system with air egress channels to easily eliminate bubbles and wrinkle during application
- Excellent Hi Tack adhesion to low surface energy and difficult to adhere to substrates such as plastics, powder coated paint, fiberglass, clear coats and painted metal.
- Excellent printability on eco-solvent, solvent, latex and UV curable printers
- Advanced face formulation provides increased colour gamut and consistency
- StaFlat liner provides easy handling and converting properties
- Outstanding outdoor durability and performance#
- Superior 3D conformability for demanding applications#
- Excellent dimensional stability
- Dark grey tie coat adhesive provides extra opacity for blockout performance

# when used with DOL 6460 High Gloss and DOL 1400Z Series

## Description:

**Film:** 50 micron high gloss white cast vinyl

**Adhesive:** Grey tie coat, clear Hi Tack permanent acrylic with Easy Apply™

**Backing:** Two side PE coated StaFlat™ paper, 145g/m

**Outdoor life**:** Up to 7 years unprinted

**Application surface:** Flat, simple curves, rivets and compound curves & corrugations

## Conversion+:

| | |
|---|---|
| ◯ Flatbed cutters | ◯ Cold overlaminating |
| ◯ Friction fed cutters | ◯ Electrostatic printing |
| ◯ Die cutting | ◉ Latex inkjet |
| ◯ Thermal transfer | ◉ Eco solvent inkjet |
| ◯ Screen printing | ◉ Solvent inkjet |
| ◯ Offset printing | ◉ UV curable inkjet++ |

+ Always test with your combination of printer and inks prior to commercial use.
++ For flat surfaces only, except for qualified flexible UV inks

## Common Applications:

- Flat sided trucks
- Corrugated trucks
- Cars and vans
- Trains and light rail
- Buses
- Marine Vessels
- Corporate Signage
- Interior / Exterior decorative Architectural
- Low Surface Energy Substrates

## Application:

- Avery Dennison recommend a maximum total ink limit of 270% to ensure optimal performance
- Product is only warranted and recommended for use with DOL 6460 High Gloss and DOL 1000Z Series; MPI 1106 Hi Tack Easy Apply™
- Dry application only. Do not use water and detergent or a commercial application fluid to position the graphic
- Refer to Instructional Bulletins 1.14, 1.15, 1.17 & 4.14 for printing and application instructions

## Uses:

Avery Dennison MPI 1106 Hi Tack Easy Apply™ is a premium gloss white opaque cast vinyl film designed for application to difficult low surface energy substrates, with superior conformability, durability, high opacity, outdoor performance. The face film has been especially developed for exceptional print results on all major printer platforms using Latex, Eco-Solvent, Hard Solvent and UV-Curing inks.

## General

| | | |
|---|---|---|
| **Calliper, face film** | ISO 534 | 50 micron |
| **Calliper, face film & adhesive** | ISO 534 | 75 micron |
| **Gloss** | Hunter Gloss @ 60° | 90 GU |
| **Dimensional stability** | FINAT FTM14 | <0.4 mm ^^ |
| **Elongation** | DIN 53455 (Unprinted film) | > 200% |
| **Adhesion, 24 hrs** | FINAT FTM-1, Stainless steel | 693 N/m |
| **Adhesion, 24 hrs** | FINAT FTM-1, LSE Plastics | 718 N/m |
| **Adhesion, 24 hrs** | FINAT FTM-1, LSE Textured | 613 N/m |
| **Adhesion 24 hrs** | FINAT FTM-1, LSE Paints | 788 N/m |
| **Flammability** | ASTM E84 | Self extinguishing Class1 or A rating |
| **Shelf life** | Stored at 22° to 25°C/ 50-55 % RH | 2 years from date of manufacture |
| **Expected Durability **** | Vertical exposure ^ | Up to 7 years (unprinted) |

^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information
^^ Not ink loads in excess of 250% may cause increase shrinkage or increase initial adhesion of the printed film

## Thermal

| | | |
|---|---|---|
| **Application temperature** | | Minimum: + 4°C Flat |
| **Temperature range** | (Reasonable range of temperatures that can be expected under normal environmental conditions). | - 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 |
| **Solvent resistance** | Applied to aluminium | No effect exposed to: Oils, greases, aliphatic solvents, motor oils, heptanes, kerosene, JP-4 fuel |

## Note

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.

Certified for HP Latex Inks

For further details please check the HP media locator website at: hp.com/go/mediasolutionslocator

### 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 35ºC. After exposure, the film is removed and the panel is examined for traces of corrosion.