

MPI 1105 Easy Apply RS™ Gloss White Cast with Easy Apply RS™ Technology

Revision 7

Introduction

Avery Dennison® MPI 1105 Easy Apply RS™ is a premium gloss white opaque cast vinyl film designed for ease of application on long term outdoor signage or fleet applications where superior conformability, durability, high opacity, outdoor performance and clean and easy removal are required. 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.

Common Applications

- Flat sided trucks
- Corrugated trucks
- Cars and vans
- Trains and light rail
- Buses
- Marine vessels
- Corporate Signage



Face Film
50 micron high gloss white cast PVC



Adhesive
Grey permanent acrylic with Easy Apply RS™ & LTR



Backing
Two side PE coated StaFlat™ paper, 145g/m²



Outdoor Life**
Up to 10 years unprinted

Features

- Easy Apply RS™ adhesive system with air egress channels to easily eliminate bubble and wrinkle during application
- Slides smoothly on surface for exact positioning: RS™ technology stands-off from surface until pressure is applied
- Low adhesive tack level allows graphics to be repositioned during application
- 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 with DOL 6460 High Gloss, DOL 1400Z Series and DOL 1000Z Series
- Excellent dimensional stability
- Dark grey adhesive provides extra opacity for blackout performance
- Easy removability with heat for up to 5 years with little or no adhesive residue

Conversion

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

Certified for
HP Latex Inks

Asia Pacific
July 2024

Applications

- 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, DOL 1400Z and DOL 1000Z Series; MPI 1105 Easy Apply RS™
- Dry application only. Do not use water and detergent or a commercial application fluid to position the graphic
- Refer to [Instructional Bulletin 1.17](#) for Key Considerations for Vehicle Wrapping & Conforming
- Refer to [Instructional Bulletin 4.14](#) for Introduction to Digitally Printed Graphics

General

| | | |
|-------------------------------|------------------------------|--------------------|
| Roll width, length | 1372mm, 1524mm | 45m |
| Caliper, face film | ISO 534 | 50 micron |
| Caliper, face film & adhesive | ISO 534 | 80 micron |
| Gloss | ISO 2813 @20° | 50% |
| Elongation | DIN 53455 | Min 200% |
| Dimensional stability | FINAT FTM-14 | 0.3mm max |
| Adhesion, initial | FINAT FTM-1, Stainless steel | 280 N/m |
| Adhesion, ultimate | FINAT FTM-1, Stainless steel | 450 N/m |
| Shelf life | Stored at 22° C/50% RH | 2 years |
| Flammability | ASTM E84 | Self extinguishing |
| Fire Standard Certification | AS 5637.1:2015 | Group Number 1 |
| Expected Durability** | Vertical exposure | Up to 10 years |

Thermal

| | |
|-------------------------|-----------------|
| Application temperature | Minimum: + 10°C |
| Temperature range | -45°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 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.

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.

**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.

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.

^^ Removability

Not removable when applied to nitrocellulose paints, fresh screen print inks, ABS, polystyrene & certain types of PVC.

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.

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



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