

PRODUCT DATA SHEET

Avery Dennison® MPI™ 1405 EA RS

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Introduction

MPI 1405 EA RS is a premium high gloss polyurethane film designed for use on vehicle wrapping and outdoor architectural applications where sustainable PVC-free solution is required. MPI 1405 EA RS offers excellent 3D conformability, extended durability together fast and easy application using EA RS technology, covering a wide range of both wrapping and architectural applications with one optimal solution.

Conversion

MPI 1405 EA RS are ultra-premium products, delivering maximum durability for a wide range of graphics applications. The films are suitable for use on a variety of super-wide format inkjet printers using solvent, eco solvent, UV* or latex ink.

To enhance color and to protect images against UV radiation and abrasion, it is recommended to protect Avery Dennison MPI 1405 EA RS using an overlamine - Avery Dennison SL 6460 Gloss.

For recommended combinations of DOL/SL films and media, please refer to "Technical Bulletin 5.3. Recommended combinations and durability

of Avery Dennison MPI/SP and Avery Dennison DOL/SL Series Films". For information on how to apply Avery Dennison MPI 1405 EA RS Films, please refer to "Technical Bulletin 5.10. Application of Avery Dennison PVC-free Wrapping Films".

Recommendations

- » Full vehicle wraps and vehicle graphics
- » Outdoor architectural surfaces like cement, brick, and concrete surfaces.
- » All permanent applications requiring high conformability

Features

- » Excellent print performance with dedicated profiles across all digital platforms - latex, solvent, eco-solvent, UV - with one product
- » Quick and easy installation over complex curves and deep recesses with Easy Apply RS technology, which eliminates wrinkles and bubbles for both demanding vehicle and outdoor architecture applications
- » Reliable performance with clean long term removable adhesive for easy removal at end of life - High gloss and attractive whiteness enabling eye-catching graphics that stand out on both vehicle wrapping applications and on outdoor architectural applications
- » Exceptional durability up to 12 years unprinted
- » Greenguard Gold certified

* Limitations of the inks to be taken into account

** When used in combination with SL 6460 Gloss



Face Film

51 microns high gloss polyurethane film



Adhesive

grey, long term removable, acrylic based



Backing

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



Durability

12 years (unprinted, vertical exposure)



Shelf Life

2 years

Physical Characteristics

	Test method ¹	Results
Product		
Caliper, facefilm (micron)	ISO 534	51
Caliper, facefilm + adhesive (micron)	ISO 534	62
Dimensional stability (mm max.)	FINAT FTM 14	0.4
Shelf life (years)	Stored at 22° C/50-55 % RH	2
Durability ² (years)	Vertical exposure	12
Fire Classification Rating	EN13501-1	B-s1, d0
Adhesive		
Elongation (%)	DIN 53455	150%
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	320
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	370
Temperature range		
Application temperature (Minimum: °C)		≥10 °C
Service temperature (°C to +°C)		- 40 °C to + 80 °C
Chemical properties³		
Chemical resistance	Mild acids	No effect
Solvent resistance	Mild alkalis	No effect
Solvent resistance	Applied to aluminium	No effect exposed to: oils, greases, aliphatic solvents, motor oils, heptane, kerosene and JP-4 fuel.

Important

Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. 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 this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of this document, the English version shall be prevailing and leading.

1) Test methods: More information about our test methods can be found on our website.

2) Durability: The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.

3) Prolonged immersion in gasoline and similar fluids is not recommended.

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