

# Recommended combinations and durability of Avery Dennison® MPI™ / SP and Avery Dennison® DOL™ / SL Series Films

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### Main reasons for overlaminating are:

- Extend durability. Protection against abrasion, water/moisture and UV radiation.
- Colour enhancement (brighten up the printed colours)
- Creating the desired gloss level (gloss, matt or lustre)
- Product related like protection (Avery Dennison Floor Marking overlaminates)

### Self adhesive Digital Overaminates

There is a wide variety of laminates available for different functional purposes. And for all sorts of substrate shape; from flat to most complex curved. For corrugated or 3D curved substrates use an Avery Dennison DOL 1400 Z series, a SL 6560 overlaminate or a recommended varnish.

To ensure flawless applications, it is always recommended to wait after printing before the graphics is being overlaminated. The ink needs to be fully cured/ dried before an overlaminate can be applied. In general a drying time of 24 hours or even 48 hours (when eco-/mild solvent inks are used) is recommended. When drying, material should **not** be tightly wound on a core, as the solvents are then unable to evaporate. The materials should be left drying loosely wound on a core, or stacked in racks as sheets.

After lamination it is further recommended to let the adhesion of the overlaminate build up sufficiently to avoid any issues during the application process. Final adhesion properties are typically reached within 24 hours.

The actual durability of the image will also depend on the quality of inks/toners and the specific digital printing process. We recommend checking if the required appearance can indeed be obtained after lamination.

Purchasers should independently determine, prior to use, the suitability of the material to their specific use.

The colors of an overlaminated print can be slightly different when compared to the unlaminated original. It is possible to minimize this effect by creating a dedicated ICC/media profile.

For detailed information on product properties, please refer to the datasheets.

### Note

The expected **outdoor** lifetime of overlaminated images mentioned in tables in this document are based upon vertical exposure and Central European conditions. Furthermore, the quality of inks used will also determine the durability of a printed graphic. The values mentioned in this Technical Bulletin are indicative. Please check ICS Performance Guarantee documents for actual durability corresponding to specific printer/ink/media combinations.

# TECHNICAL BULLETIN 5.3

## Avery Dennison MPI / SP Products

Avery Dennison Films		Recommended Combinations							
Gloss	SP 1540	SL 6560 <sup>2</sup>	DOL 1460 MAX	DOL 1460 Z	DOL 2460	DOL 2860	DOL 3460 SL 4510	SL 4530	DOL 4400
Lustre				DOL 1470 Z	DOL 2470		DOL 3470		
Matte				DOL 1480 Z	DOL 2480	DOL 2880 <sup>3</sup>	DOL 3480		
MPI 1405 Easy Apply RS		< 8 years							
SP 1504 Easy Apply		< 6 years							
SP 1540 Ultra Clear (ex. MPI 1440)	< 8 years								
MPI 1105 Series			< 8 years	< 6 years				< 5 years	< 6 years
MPI 1104 Series			< 7 years	< 5 years				< 5 years	< 5 years
MPI 1106 Series			< 7 years	< 5 years				< 5 years	< 5 years
MPI 2000 Series MPI 2000 HOP Series					< 5 years			< 5 years	< 5 years
MPI 2004 HOP EA					< 5 years			< 5 years	< 5 years
MPI 2005 EA RS MPI 2005 EA RS Superslide					< 5 years			< 5 years	< 5 years
MPI 2006 HOP HT					< 5 years			< 5 years	< 5 years
MPI 2020					< 5 years			< 5 years	< 5 years
MPI 2040 / MPI 2041					< 5 years			< 5 years	< 5 years
MPI 2150					< 5 years			< 5 years	< 5 years
MPI 2800 Series MPI 2800 HOP Series						< 3 years		< 3 years	< 3 years
MPI 2804 Easy Apply						< 3 years		< 3 years	< 3 years
MPI 3000 / MPI 3000 HOP / MPI 3001 MPI 3001 HOP / MPI 3004 HOP EA							< 2 years	< 2 years	< 2 years
MPI 3020 / MPI 3020 HOP / MPI 3021 MPI 3021 HOP / MPI 3024 HOP EA							< 2 years	< 2 years	< 2 years
MPI 3601 / MPI 3621							< 2 years	< 2 years	< 2 years
SP 3523							< 3 years	< 3 years	

## Avery Dennison Window Films

Avery Dennison Window Films		Recommended Combinations		
Gloss	DOL 4000	SL 4510	SP 1540	
MPI 7201	< 3 years	< 3 years		
MPI 7301	< 2 years	< 2 years		
SP 1540 Ultra Clear (ex. MPI 1440 Ultra Clear)			< 8 years	
SF 100	< 2 years	< 2 years		

For Perforated Window Film, only the use of Avery Dennison DOL 4000 or SL 4510 is recommended. DOL 4000 can be used for either flat or slightly curved windows. SL 4510 is suitable for 100% flat windows only. SF 100 Ultra Clear can only be used on flat substrates.

## Avery Dennison Floor Marking, Reflective Films, SignFlex™ series

Avery Dennison Floor Marking products		Recommended Combinations				
Textured	DOL 6000	DOL 5900	SL 6560 <sup>2</sup>	DOL 1460 Z	SignFlex™	
MPI 2001 / MPI 2001 HOP / MPI 2002 / MPI 2041	< 9 months <sup>1</sup>	< 6 months <sup>1</sup>				
MPI 3001 / MPI 3001 HOP		< 6 months <sup>1</sup>				
V-4000 / V-8000			< 5 years	< 4 years		
SignFlex™					< 5 years	

<sup>1</sup>Indoor applications only

<sup>3</sup>Indoor only, 2 years outdoor

<sup>2</sup>Remove PET protective sheet just after lamination