

Recommended combinations and durability of Avery Dennison® MPI™ and Avery Dennison® DOL™ 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 overlaminate or a recommended varnish.

In case of solvent printing, films need to be fully dried before an overlaminate or varnish can be applied. In general a drying time of 24 hours (full solvent) or 48 hours (eco-/mild solvent) will be sufficient. In case if a lot of ink is deposited, materials may need increased drying time in order to be sufficiently dry. 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.

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 Products

Avery Dennison Films	Recommended Combinations							
Gloss	DOL 6460	DOL 1460 Z	DOL 2460	DOL 2860	DOL 3460	DOL 4300	DOL 4400	DOL 6040
Lustre			DOL 2470		DOL 3470			
Matte		DOL 1480 Z	DOL 2480	DOL 2880	DOL 3480			
MPI 1405 Easy Apply RS	< 8 years							
MPI 1105 / MPI 1105 EA RS		< 6 years				< 4 years	< 6 years	< 3 years
MPI 1104 / 1104 Easy Apply		< 4 years				< 4 years	< 4 years	< 3 years
MPI 1106 / 1106 EA		< 4 years				< 4 years	< 4 years	< 3 years
MPI 2000 / MPI 2000 HOP / MPI 2001 MPI 2001 HOP / MPI 2002 / MPI 2003			< 4 years			< 4 years	< 4 years	
MPI 2004 EA			< 4 years			< 4 years	< 4 years	
MPI 2005 EA RS			< 4 years			< 4 years	< 4 years	
MPI 2006			< 4 years			< 4 years	< 4 years	
MPI 2020			< 4 years			< 4 years	< 4 years	
MPI 2040 / MPI 2041			< 4 years			< 4 years	< 4 years	
MPI 2150			< 4 years			< 4 years	< 4 years	
MPI 2800 / MIP 2800 HOP MPI 2801 / MPI 2801 HOP				< 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 3010 / MPI 3011					< 2 years	< 2 years	< 2 years	
MPI 3601 / MPI 3621					< 2 years	< 2 years	< 2 years	

Avery Dennison Perforated Window Films

Avery Dennison Window Films	Recommended Combinations	
Gloss	DOL 4000	DOL 4100
MPI 7101 / MPI 7201	< 3 years	< 3 years
MPI 7301	< 2 years	< 2 years
MPI 7401	< 1 years	< 1 years
SF 100 Ultra Clear	< 2 years	< 2 years

For Perforated Window Film, only the use of Avery Dennison DOL 4000 or DOL 4100 is recommended. DOL 4000 can be used for either flat or slightly curved windows. DOL 4100 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	DOL 6460	DOL 1460Z	SignFlex™ DOL
MPI 2001 / MPI 2001 HOP / MPI 2002 / MPI 2041	< 9 month*s	< 6 months*			
MPI 3001 / MPI 3001 HOP		< 6 months*			
V-4000 / V-8000			< 5 years	< 4 years	
SignFlex™					< 5 years

*Indoor applications only