



# Avery Dennison® ICS Performance Guarantee

## Mutoh Durability Bulletin 1.10

EU Revision number: 24 Date: 4-2021

### ICS PERFORMANCE GUARANTEE

The ICS Performance Guarantee combines our films with other qualified components to form a system which is guaranteed to be compatible and provide superior performance. You know exactly what to expect from your finished Avery Dennison graphics because your combination has already withstood rigorous scientific testing and met a very stringent set of durability and physical performance specifications.

### Printer configuration

Avery Dennison ICS Performance Guarantee for digital inkjet printed graphics with the following Mutoh printers and inks;

Equipment Manufacturer	Printer name	Ink series*	ICS number
<b>MUTOH</b>	ValueJet VJ-628	Eco Ultra	1.10.1
	ValueJet VJ-1324X	Eco Ultra / UMS ink	1.10.1
	ValueJet VJ-1604X	Eco Ultra / UMS ink	1.10.1
	ValueJet VJ-1624X	Eco Ultra / UMS ink	1.10.1
	ValueJet VJ-1638X	Eco Ultra / UMS ink	1.10.1
	ValueJet VJ-2638X	Eco Ultra / UMS ink	1.10.1
	XpertJet XPJ-1641SR	UMS / MS41 ink	1.10.1
	XpertJet XPJ-1682SR	UMS / MS41 ink	1.10.1

\* Where relevant white inks are excluded from warranty



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## Mutoh Durability Bulletin 1.10.1

Avery Dennison MPI Digital Media	Graphics Protection	Warranty period in years <sup>1</sup>				Application Surface					
		Outdoor	Vehicles	Marine	Indoor	Flat	Simple curves	Rivets	Compound curves	Corrugations	
MPI 1405 Easy Apply RS	Unprotected and unprinted	12	-	-	-	-	•	•	•	•	•
	DOL 6460 Gloss	8 <sup>4</sup>	8	4	12	•	•	•	•	•	
MPI 1440 Ultra Clear	Unprotected and unprinted	12	-	-	-	-	•	•	•	•	
	MPI 1440 Ultra Clear	8 <sup>4</sup>	8	4	12	•	•	•	•	•	
MPI 1105 Series	Unprotected and unprinted	10	-	-	-	-	•	•	•	•	
	DOL 1460 Z Gloss, DOL 1480 Z Matte	6 <sup>3</sup>	6	3	9	•	•	•	•	•	
MPI 1104, MPI 1104 EA MPI 1106, MPI 1106 EA	Unprotected and unprinted	7	-	-	-	-	•	•	•	•	
	DOL 1460 Z Gloss, DOL 1480 Z Matte	5 <sup>3</sup>	5	2	7	•	•	•	•	•	
MPI 1105 Series MPI 1104, MPI 1104 EA MPI 1106, MPI 1106 EA	Unprotected and unprinted	7	-	-	-	-	•	•	•	•	
	DOL 6040	4	4	-	6	•	•	-	-	-	
MPI 2000/2001, MPI 2000/2001 HOP, MPI 2002, MPI 2003 MPI 2004 HOP EA, MPI 2005 EA RS / Low Tack, MPI 2020 MPI 2040/2041, MPI 2006 HOP HT	Unprotected and unprinted	7	-	-	-	-	•	•	-	-	
	DOL 2460 Gloss, DOL 2470 Lustre, DOL 2480 Matte DOL 4300	5 <sup>3</sup>	5	-	7	•	•	-	-	-	
MPI 2001, MPI 2002, MPI 2001 HOP, MPI 2041	Unprotected and unprinted	7	-	-	-	-	•	-	-	-	
	DOL 6000	-	-	-	9 <sup>2</sup>	•	-	-	-	-	
MPI 2150	Unprotected and unprinted	7	-	-	-	-	•	•	-	-	
	DOL 2460 Gloss, DOL 2470 Lustre, DOL 2480 Matte	4	-	-	7	•	•	-	-	-	
MPI 2800/2801, MPI 2800/2801 HOP MPI 2804 EA	Unprotected and unprinted	7	-	-	-	-	•	•	-	-	
	DOL 2860 Gloss, DOL 2880 Matte DOL 4300	3	3	-	7	•	•	-	-	-	
MPI 3000/3001, MPI 3000/3001 HOP, MPI 3004 HOP EA MPI 3020/3021, MPI 3020/3021 HOP, MPI 3024 HOP EA MPI 3026 HOP Supertack, MPI 3040/3041	Unprotected and unprinted	3	-	-	-	-	•	-	-	-	
	DOL 3460 Gloss, DOL 3470 Lustre, DOL 3480 Matte DOL 4300	2	2	-	3	•	-	-	-	-	
MPI 3001, MPI 3001 HOP	Unprotected and unprinted	3	-	-	-	-	•	-	-	-	
	DOL 5900	-	-	-	6 <sup>2</sup>	•	-	-	-	-	
MPI 3021 DOT, MPI 3041 DOT	Unprotected and printed	1	-	-	-	1	•	-	-	-	
MPI 3151	Unprotected and unprinted	3	-	-	-	-	•	-	-	-	
	DOL 3460 Gloss, DOL 3470 Lustre, DOL 3480 Matte	2	-	-	3	•	-	-	-	-	
MPI 3601, MPI 3621	Unprotected and unprinted	3	-	-	-	-	•	-	-	-	
	DOL 3460 Gloss, DOL 3470 Lustre, DOL 3480 Matte DOL 4300	2	2	-	3	•	-	-	-	-	
MPI 6021 Anti-Slip Floor Marking	Unprotected and unprinted	1 <sup>3</sup>	-	-	-	1 <sup>3</sup>	•	-	-	-	
	Unprotected and unprinted	3	-	-	-	-	•	-	-	-	
MPI 7201	DOL 4000 Ultra Clear Cast	3	3	-	3	•	-	-	-	-	
	DOL 4100 Ultra Clear Polyester	2	2	-	3	•	-	-	-	-	
MPI 7301	Unprotected and unprinted	2	-	-	-	-	•	-	-	-	
	DOL 4000 Ultra Clear Cast, DOL 4100 Ultra Clear Polyester	2	2	-	2	•	-	-	-	-	
MPI 8000 Wall Film Series (exc. MPI 8520 Wall Paper Smooth)	Unprotected and printed	4	-	-	-	4	•	-	-	-	

<sup>1</sup> Vertical exposure, mid-European climatic conditions

<sup>2</sup> Durability in months

<sup>3</sup> Stationary applications facing South, West or Southwest will have a 1 year durability deduction

<sup>4</sup> Up to 12 months durability on textured surfaces



# Avery Dennison® ICS Performance Guarantee

## Additional information on graphics durability

### Definition of durability and potential durability reductions.

The durability of Avery Dennison Graphics and Reflective Solutions films are defined as the expected performance life of the Avery Dennison graphic film(s) within the European region in outdoor vertical exposure conditions. The durability is defined such that the films will not deteriorate excessively, i.e the finished graphic remains effective for its advertising or identification purpose when viewed under normal conditions from the intended viewing distance.

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, industrially polluted areas or the durability will be further reduced below levels stated in this ICS Performance Guarantee document.

### Angle and direction of exposure.

**Vertical exposure**

The face of the graphic is up to 10° from vertical.

**Non-vertical exposure**

The face of the graphic is between 10° and 85° from vertical. The durability as stated in this ICS performance guarantee document is reduced by 50% for non-vertical applications.

**Horizontal exposure**

The face of the graphic is between 85° and 90° from vertical. The durability as stated in this ICS performance guarantee document is reduced by 50% for horizontal applications.

### Definition of durability and potential durability reductions.

**High elevations:** In mountain areas UV damage is increased over exposures at sea level. This is due to the air being thinner and therefore damage of UV radiation increases significantly.

**Congested urban or industrial areas:** Due to increased smog, pollutants and particulates in the atmosphere, applications have reduced durability expectations. Also horizontal application traps chemicals on the surface of the material, increasing the impact of UV exposure and reducing durability.

“Indoor” durability means that the Product in a finished graphic situated within the interior of a building without direct exposure to sunlight and applied to recommended surfaces, will not deteriorate excessively such that the finished graphic is ineffective for its advertising or identification purpose(s) when viewed under normal conditions from the intended viewing distance, due solely to a defect in the Product in manufacturing or workmanship.





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## Additional information on graphics durability

### Zone system Europe

Based on a 3-tier climatic Zone System (as attached), durability in regions as located in Zone 1 will perform in vertical applications as stated in the product datasheets and this particular ICS Performance Guarantee Bulletin. Films used in regions identified in Zone 2 will have a reduction of two years. Films used in regions identified in Zone 3 will have a reduction of the stated durability of Zone 2 by an additional two years. Where the Zone 2 durability is less than three years, the Zone three durability is 50% of Zone 2

Zone 1 (displayed in ICS Bulletin table above)		Zone 2		Zone 3	
Vertical	Non-vertical / Horizontal	Vertical	Non-vertical / Horizontal	Vertical	Non-vertical / Horizontal
8	4	6	3	4	2
7	3.5	5	2.5	3	1.5
6	3	4	2	2	1
5	2.5	3	1.5	1.5	0.75
4	2	2	1	1	0.5
3	1.5	1	0.5	0.5	0.25
2	1	-	-	-	-
1	0.5	-	-	-	-

Durability in years

### Zone chart

Zone 1	Zone 2	Zone 3
Andorra, Austria, Belarus, Belgium, Bosnia & Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France (excluding Corsica & Réunion), Georgia, Germany, Hungary, Iceland, Ireland, Italy (North and Central), Kosovo, Latvia, Liechtenstein, Lithuania, Luxemburg, Macedonia F.Y.R., Moldova, Monaco, Montenegro, The Netherlands, Norway, Poland, Romania, Russia, San Marino, Serbia, Slovakia, Slovenia, Sweden, Switzerland, Ukraine, United Kingdom, Vatican City.	Albania, Armenia, Azerbaijan, Corsica, Greece, Italy (South of Rome), Kazakhstan, Kyrgyzstan, Malta, Mauritius, Portugal, Réunion, San Marino, South Africa, Spain (excluding Canary Islands), Tajikistan, Turkey, Turkmenistan, Uzbekistan.	Afghanistan, Algeria, Bahrain, Canary Islands, Cyprus, Egypt, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Qatar, Saudi Arabia, Tunisia, United Arab Emirates, Yemen.

Excluding all sites (mentioned in zones 1, 2 and 3) above altitudes of 1000 meters.

**WARRANTY:** All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>

For full warranty details see the Avery Dennison ICS Performance Guarantee Bulletin (Terms & Conditions) 1.0. Warranty is subjected to the Avery Dennison ICS Platinum Warranty Bulletin (Terms & Conditions) and/or Avery Dennison ICS Performance Guarantee Bulletin (Terms & Conditions), available on request.

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