# Avery Dennison® Instructional Bulletin 1.30 EU

## **Durability of Avery Dennison Graphics Films**

#### Introduction

The durability of Avery Dennison Graphics films are defined as the expected performance life of the Avery Dennison Graphics films 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. Specific durability expectations are available in the appropriate Product Data Sheet and/or ICS Performance Guarantee Durability Bulletins.

#### **Reduction of Durability Expectations**

The actual performance life will depend on a variety of factors, including selection and preparation of the substrate, angle and direction of exposure, application methods, environmental conditions and cleaning and maintenance of the films. In case of films used in areas of high temperatures or humidity, high altitudes, in industrially polluted areas or other areas with air laden particulate matter, the durability will be further reduced below the level stated in the appropriate Product Data Sheets, Instructional Bulletins and/or ICS Performance Guarantee Bulletins.

#### **Vertical Exposure**

The face of the graphic is  $\pm 10^\circ$  from vertical. Vertical durability is as stated in appropriate Product Data Sheets, Technical Bulletins and/or ICS Performance Guarantee Durability Bulletins.



#### **Non-Vertical Exposure**

The face of the finished graphic is 10° to 85° from vertical.



#### **Horizontal Exposure**

The face of the finished graphic is 85° to 90° from vertical. The reduction of durability for horizontal applications would be 50% less than the stated durability in appropriate Product Data Sheets, Technical Bulletins and/or ICS Performance Guarantee Durability Bulletins.





#### **Special Locations**

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 from UV radiation increases significantly.

Congested Urban or Industrial Areas – Due to increased smog, pollutants, and particulates in the atmosphere in congested urban and industrial areas horizontal applications have reduced durability expectations. The horizontal application traps the chemicals on the surface of the material, increasing the impact of UV exposure and reducing durability.

#### **Zone System Europe**

Based on the Zone System below, durability in regions located in Zone 1 will perform in vertical applications as stated in the Product Data Sheet and ICS Performance Guarantee Durability Bulletins.

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 vertical Zone 2 durability is less than three years the Zone 3 durability is 50% of Zone 2.

The durability of horizontal applications in all zones is 50% of the vertical durability for the following products:

- Avery Dennison Signage films (opaque, transparent/translucent, specialty, and reflective)
- Avery Dennison Supreme Wrapping Films (SWF)
- All Avery Dennison White and Transparent digitally printable films.

All other products have a guarantee on vertical durability only.

**Horizontal exposure and Zone Reductions** 

Zor	Zone 1		Zone 2		Zone 3	
Vertical	Non-Vertical, Horizontal	Vertical	Non-Vertical, Horizontal	Vertical	Non-Vertical, Horizontal	
12	6	10	5	8	4	
11	5.5	9	4.5	7	3.5	
10	5	8	4	6	3	
9	4.5	7	3.5	5	2.5	
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 System Chart**

See country/area zone classification below.

Zone 1  Albania Armenia Myanmar (Birma) Australa* Apepal Australa Belarus Belarus Belgium Bosnia & Herzegovina Bulgaria Belize Benin Peru Burkina Faso Benin Peru Burkina Faso Benin Peru Burkina Faso Benin Peru Burkina Faso Burundi Bahrain B	See Courti y/area zone	Classification below.		_	
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Avery Dennison Instructional Bulletin 1.3 – Durability of Avery Dennison Graphics Films

Vatican City	Malta Mauritius	* Exceptions classified in Zone 3
*Except desert areas of the States	Maaritad	0145011154 117 25116 6
mentioned in Zone 2		

This document replaces all former statements on durability regarding exposure- and zone reduction of products by Avery Dennison Graphics Solutions Europe, including Supreme Cover documents and Technical Bulletins.

ICS Project Warranty documents can contain individual agreements which may vary from I.B 30, Technical Bulletins or datasheets.

Please check the ICS Warranty "Terms & Conditions" documents for any additional information

Questions regarding the durability of a specific product should be directed to your Avery Dennison sales, marketing, technical representative or the Avery Dennison Graphics website