Avery Dennison
Graphics Solutions
ICS Performance Guarantee Bulletin

Asia Pacific
October 2024

ICS Performance Guarantee Bulletin 2.5 – Wrapping Films

AP Revision number 1

Introduction

The ICS Performance Guarantee combines our films with qualified components to form a system which is guaranteed to be compatible and provide outstanding performance. Granted to all customers working according to the relevant Avery Dennison Instructional Bulletins, the ICS Performance Guarantee offers a range of choice and flexibility. You choose the application and couple it with our films – and we provide the warranty.

Please refer to Avery Dennison ICS Performance Guarantee Terms and Conditions 1.0 for further details.

		Warranty period in years						Application Substrate				
		Zone 1		Zone 2		Zone 3						
Finish	Colour	Outdoor Vertical	Outdoor Horizontal	Outdoor Vertical	Outdoor Horizontal	Outdoor Vertical	Outdoor Horizontal	Flat	Simple Curves	Rivets	Compound Curves	Deep Recesses & Corrugations
Avery Dennison Ultimate Wrapping Film												
Gloss		2	–	1	–	0.5	–	●	●	-	●	-
Metallics		2	–	1	–	0.5	–	●	●	-	●	-
Matte		2	–	1	–	0.5	–	●	●	-	●	-
Avery Dennison Supreme Wrapping™ Film												
Gloss	Black and White	10	2	7	1.5	4	1	●	●	●	●	●
	Colours	10	2	7	1.5	4	1	●	●	●	●	●
	Metallics	5	2	3.5	1	2	0.5	●	●	●	●	●
	ColorFlow™	5	2	3.5	1	2	0.5	●	●	●	●	●
Satin	Black and white	10	2	7	1.5	4	1	●	●	●	●	●
	Colours	10	2	7	1.5	4	1	●	●	●	●	●
	Metallics	5	2	3.5	1	2	0.5	●	●	●	●	●
	ColorFlow™	5	2	3.5	1	2	0.5	●	●	●	●	●
Matte	Black and White	10	2	7	1.5	4	1	●	●	●	●	●
	Colours	10	2	7	1.5	4	1	●	●	●	●	●
	Metallics	5	2	3.5	1	2	0.5	●	●	●	●	●
Diamond	Ultra Metallics	5	2	3.5	1	2	0.5	●	●	●	●	-
Extreme Textures	Rugged	5	2	3.5	1	2	0.5	●	●	●	●	●
	Carbon Fibre	5	2	3.5	1	2	0.5	●	●	●	●	-
	Brushed Metallics	5	2	3.5	1	2	0.5	●	●	●	●	-
Conform Chrome	All colours and finishes	3	1.5	2	1	1	0.5	●	●	●	●	-

Important Note: Where the material is applied in a 'marine environment', the stated warranty period will be reduced by 40%.

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Avery Dennison® ICS Performance Guarantee Additional information on graphics durability

Expected Durability and Potential Durability Reductions

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within the AP region in outdoor vertical exposure conditions.
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 and industrially polluted areas the performance will be further reduced.

Expected Durability and Warranted Period Definitions

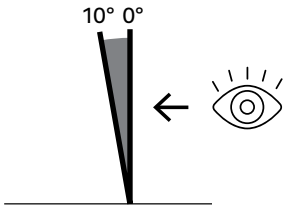
Expected durability is the expected period of time defined in the product data sheet, the product should, but is not warranted to, perform satisfactorily when applied in vertical exposure conditions as defined in Instructional Bulletin 1.30. The warranted period communicated in this ICS Performance Guarantee Bulletin, is the maximum period of time Avery Dennison will warrant the finished products performance in accordance with ICS Performance Guarantee Terms and Conditions 1.0, provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines.

Other 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 of this kind have reduced durability expectations. Horizontal applications trap pollutants on the surface of the material, increasing the impact of UV exposure and reducing durability.

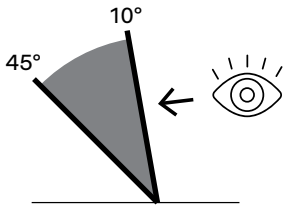
Angle and Direction of Exposure

Vertical exposure



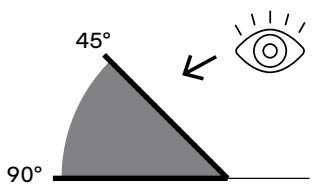
The face of the graphic is up to 10° from vertical.

Non-vertical exposure



The face of the graphic is between 10° to 45° 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 45° and 90° from vertical. Horizontal applications are not warranted and do not have any expectations of durability, unless otherwise stated in this ICS performance guarantee.

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Zone Chart - Asia Pacific

Zone 2

Bangladesh	East Timor	Korea (South)	Micronesia	Rwanda	Taiwan
Bhutan	Fiji	Laos	Myanmar (Burma)	Samoa	Thailand
Burkina Faso	Guinea	Lesotho	Nepal	Singapore	Togo
Burundi	India	Madagascar	New Zealand	South Africa (East)	Turkmenistan
Cambodia	Indonesia	Malaysia	Pakistan	Sri Lanka	Vietnam
Cameroon	Ivory Coast	Mauritania	Papua New Guinea	Suriname	
China	Japan	Mauritius	Philippines	Swaziland	

Zone 3

Angola	Equatorial Guinea	Ghana	Namibia	Somalia	Zimbabwe
Botswana	Eritrea	Kenya	Niger	Tanzania	
Central African Rep.	Ethiopia	Liberia	Nigeria	Tunisia	
Chad	Gabon	Mali	Senegal	Uganda	
Congo	Gambia	Mozambique	Sierra Leone	Zambia	

*All locations (mentioned in zones 1 and 2) when installed above altitudes of 1000 meters.

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Application

Refer to Instructional Bulletin 1.19 Application Instructions for Avery Dennison Supreme Wrapping™ Film for complete application recommendations. All vehicle substrates must be cleaned according to Avery Dennison recommended cleaning practices as outlined in Instructional Bulletin 1.01 Substrate Cleaning and Preparation.

Important Note: If the Supreme Wrapping™ Film has reached the end of its intended service life (warranted period) or you notice any decline in the appearance, loss of gloss, discoloration, cracking, crazing or degradation of the film, you must contact the company that installed the material for assessment immediately.

Important Note: Avery Dennison® Supreme Wrapping™ Film is ideal for full or partial car wraps, colour change applications and large format cut graphics. Due to the nature of the adhesive and the special backing paper, not all intricate graphic designs and small lettering may be achievable. It is recommended to test the film for cutting of detailed graphics prior to production. See Avery Dennison Instructional Bulletin 2.01 for more information. For sign cutting of detailed letters and intricate graphics we recommend Avery Dennison® 900 Super Cast.

Important Note: Due to the structured surface of Extreme Textured films, over posting of other materials to the surface may not reach suitable levels of adhesion in order to achieve a functional bond.

Colour and Opacity

Some slight color shift may occur between rolls and/or production lots, therefore, minimizing the mixing of rolls/lots on a specific vehicle is encouraged. One roll should be used per vehicle to minimize any possible color shift between rolls or lots. If multiple rolls are needed be sure to use only rolls from the same production lot. Due to the unique finish and manufacturing process of ColorFlow™, Carbon Fibre and Brushed Metallic films, variances in color and finish can be visible when the material is oriented in different directions. When utilising ColorFlow™, Carbon Fibre and Brushed Metallic films, always keep the application direction of the film consistent with the orientation film when cut from the roll. Most colours are considered opaque; however it is up to the end user to determine if the level of opacity meets their needs.

Important Note: It is recommended to use Avery Dennison cleaning products and solutions (noted in IB 1.8). Other Cleaning and maintenance products should conform to the following:

- Free from abrasive components
- Ideally pH balanced, thus not highly acidic or alkaline (pH level between 5 and 9)
- Free from alcohols (non isopropyl), acids, ammonia, chlorine, glycol ethers, harmful detergents, petroleum distillates and phosphates

For cleaning and care recommendations see Instructional Bulletin 1.8 Vehicle Graphics and Wrap Care Maintenance.

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Unsuitable Uses

This Avery Dennison product is not designed or recommended for the following uses. Unsuitable applications or exposure conditions include, but is not limited to:

- Paint that is not thoroughly cured or dried
- Low surface energy substrates (i.e. Tedlar® coatings)
- Substrates that are not clean and smooth (little or no variation in texture)
- Painted substrates with poor paint-to-substrate, or paint-to-paint bond
- Stainless steel
- Film applied to non-Avery Dennison Films
- Film applied to pre-existing graphics (pre approval required)
- Watercraft below the static water line
- Watercraft when not edge sealed
- Non-OEM painted vehicles
- Graphic removal from paint with poor adhesion or existing graphics
- Graphics exposed to oil, harsh chemical, or gasoline vapors or spills
- Graphics where application tape must adhere to liner
- Plotter cut text where the minimum size of the text or dimension of the object is less than 51 mm, or intricate designs that end in sharp or fine poinits

Removability

The removability listed in the physical characteristics section 'Clean removability' is defined by being removable with less than 30% adhesive residue when using appropriate heat and chemical removal methods. See Instructional Bulletin 1.07 for removal instructions.

Avery Dennison does not warrant removability from the following substrates:

- Surfaces with poor paint-to-substrate adhesion
- Wallboard (painted or unpainted)
- Pre existing graphics that must remain intact; damage to existing graphic when film is removed
- Improperly cured paint
- Oxidized or chalked substrates
- Stainless Steel

Avery Dennison makes no warranty for:

- Paint/Clear Coat Staining: Avery Dennison does not warrant vehicle paint staining that may be visible after removing material which has cracked or discolored. At the first sign of a change in the surface of the material contact the company that installed the material for assessment immediately.
- Ease or speed of removal of any graphic
- Removal from automotive paint that is greater than 5 years old
- Removal from paint that is improperly cured
- Removal from aged paint or metals, surface oxidation or chalking; user must test, approve and accept liability for such applications

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