



Avery Dennison® ICS Performance Guarantee Bulletin 2.5 - Wrapping Films

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ICS Performance Guarantee

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.

Avery Dennison Wrapping Films	Warranted period in years Zone 1		Warranted period in years Zone 2		Warranted period in years Zone 3		Application Substrate				
	Outdoor Vertical	Outdoor Horizontal	Outdoor Vertical	Outdoor Horizontal	Outdoor Vertical	Outdoor Horizontal	Flat	Simple curves	Rivets	Compound curves	Deep Recesses & Corrugations
Supreme Wrapping Film											
- Opaque Colours (Gloss, Satin & Matte)	10	2	7	1.5	4	1	•	•	•	•	•
- Extreme Texture (including Carbon and Brushed)	5	2	3.5	1.5	2	1	•	•	•	•	–
- Metallics (Gloss & Matte)	5	2	3.5	1	2	0.5	•	•	•	•	•
- Pearlescents	5	2	3.5	1	2	0.5	•	•	•	•	•
- ColorFlow Series	5	2	3.5	1	2	0.5	•	•	•	•	•
- Diamond (Ultrametallics)	5	2	3.5	1	2	0.5	•	•	•	•	•
- Conform Chrome (including Colours and with Transparent COL's applied)	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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Additional information on graphics durability

Expected Durability and Potential Durability Reductions

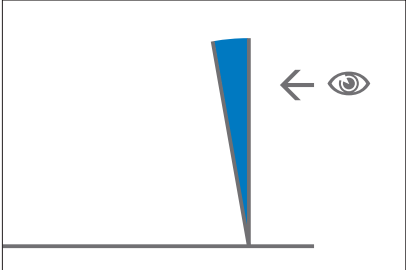
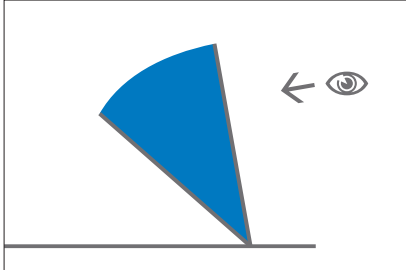
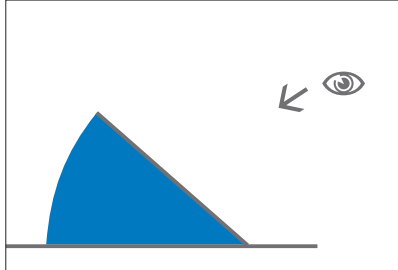
The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within the Asia Pacific region in outdoor vertical exposure conditions.

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

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 and maintained in accordance with Avery Dennison guidelines.

Angle and Direction of Exposure

Vertical exposure	Non-vertical exposure	Horizontal exposure
		
<p>The face of the graphic is up to 10° from vertical.</p>	<p>The face of the graphic is between 10° to 45° from vertical. Specifically for Supreme Wrapping Film (SW900) Non-vertical exposure performance will be calculated using the Horizontal exposure value.</p>	<p>The face of the graphic is between 45° and 90° from vertical, for Supreme Wrapping Film (SW900) Horizontal applications will be warranted as stated in the relevant ICS performance guarantee.</p>

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.



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Zone System Asia Pacific

Durability for regions located in Zone 2 may be stated in ICS Performance Guarantee Durability Bulletins and other warranty documents issued by Avery Dennison Asia Pacific. Therefore, films used in regions identified as Zone 3 will have a reduction of the stated durability by 40%. If the film is applied whereby a combination of non-vertical and Zone 3 exposure, the cumulative effect of the reduced exposures would apply. Therefore the non-vertical exposure in Zone 3 would be 70% less than the stated durability.

Zone and Non-Vertical Reduction Examples Asia Pacific

Zone 1		Zone 2 (values as in this ICS Bulletin)		Zone 3	
Vertical	Non-vertical	Vertical	Non-vertical	Vertical	Non-vertical
100%	-50% of Zone 1 Vertical	-30% Zone 1 Vertical	-50% Zone 2 Vertical	-40% Zone 2 Vertical	-70% of Zone 2 Vertical
7	3.5	5	2.5	3	1.5
5	2.5	3.5	1.75	2	1
4	2	3	1.5	1.75	0.75
3	1.5	2	1	1	-

Values in years

Asia Pacific Zone Chart

Zone 1		Zone 2		Zone 3	
Austria	United Kingdom	Andorra	Maldives	Angola	Senegal
Australia (Tasmania)	Ukraine	Australia	Malta	Bahrain	Sierra Leone
Belarus	Uzbekistan	Azerbaijan	Mauritania	Botswana	Somalia
Belgium	Vatican City	Bangladesh	Mauritius	Central African Rep.	Tanzania
Bosnia & Herzegovia	Yugoslavia	Belize	Micronesia	Chad	Tunisia
Canada		Bhutan	Moldova	Congo	Uganda
Denmark		Burkina Faso	Myanmar (Birma)	Egypt	United Arab
Ecuador	*except areas noted as	Burundi	Nepal	Equatorial Guinea	Emirates
Estonia	Zone 2 or Zone 3	Cambodia	New Zealand	Eritrea	Yemen
Finland		Cameroon	Nicaragua	Ethiopia	Zambia
France*		Cape Verde	Pakistan	Gabon	Zimbabwe
Georgia		Caribbean Isles	Papua New Guinea	Gambia	
Germany		China	Paraguay	Ghana	*Exposed at all sites above
Hungary		Cyprus	Philippines	Guinea-Bissau	altitudes of 1000 meters
Hungary		Dominica	Portugal	Iraq	
Iceland		Dominican Republic	Puerto Rico	Israel	*Australia – Above a line
Italy		East Timor	Rwanda	Jordan	100km north of
Latvia		El Salvador	Samoa	Kenya	Perth/Brisbane
Liechtenstein		Fiji	San Marino	Kuwait	
Lithuania		Greece	Sao Tome & Principe	Lebanon	*Australia – Desert areas
Luxembourg		Grenada	Singapore	Liberia	
Macedonia		Guatemala	South Africa (East)	Libya	
Monaco		Guinea	Sri Lanka	Mali	
Netherlands, the		Guyana	Suriname	Mexico	
Norway		Haiti	Swaziland	Morocco	
Poland		Honduras	Taiwan	Mozambique	
Romania		India	Thailand	Namibia	
Russia		Indonesia	Togo	New Mexico	
Slovakia		Ivory Coast	Trinidad & Tobago	Niger	
Slovenia		Jamaica	Turkey	Nigeria	
Sweden		Japan	Turkmenistan	Oman	
Switzerland		Kazakhstan	Ukraine	Qatar	
		Korea (South)	Uruguay	Saudi Arabia	
		Kyrgyzstan	Utah		
		Laos	Vietnam		
		Lesotho			
		Madagascar			
		Malaysia			

*Exceptions noted as Zone 3