

PRODUCT DATA SHEET

Avery Dennison[®] Paint Protection Film SPF Series

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Introduction

AD Supreme Protection Film - paint protection film series are a premium group of engineered thermoplastic polyurethane films in transparent clear gloss, transparent matt and gloss black finishes designed to protect a vehicle's finish against; stone chips, road debris, insect stains, small to medium scratches, chemical stains and weathering without degrading the original paint. SPF series have a "self-healing" top coat, which helps small scratches in the film disappear at room temperature with gloss and matt finishes and when film is exposed to heat with gloss black finish.

Conversion

SPF Series are designed for vehicle paint and painted surface protection purposes and are easy to size by manual cutting during application. It is also possible to apply SPF series products on top of pre-existing and applied Avery Dennison Supreme Wrapping Film. Material should be applied using the wet application method. For more information please refer to TB. 6.0.



Face Film

165 micron, top-coated thermoplastic polyurethane protected with PET sheet (SPF Matte does not have a protective PET sheet)



Adhesive

Permanent, UV resistant, solvent acrylic base



Backing

PET liner



Durability

Zone 1 vertical 10 years



Shelf Life

1 year Stored at 22°C 50-55 % RH

Recommendations

- Protection of the highly sensitive external surfaces of the vehicle like; bumper, side mirrors, hood, headlight & wheel arches.
- Protection of internal surfaces like, luggage racks or chairs in busses or trains
- Protection of surfaces in high traffic areas like, reception desks, door impact areas, wall panels and more
- Partial colour change to high gloss black to accentuate specific car parts like roof, mirrors, hood and more

Features

- Top- coating - increases the resistance to external damages
- "Self-healing" - helps small scratches in the film disappear at room temperature with gloss and matt finishes and when film is exposed to heat with gloss black finish
- Up to 10 years protection- maintaining the quality of vehicle finish
- Exceptional visual properties - enhancing the look of vehicle
- SPF-XI: Optical clarity & High gloss finish
- SPF Matte: Uniform & smooth matte finish
- SPF Gloss Black: High gloss & Deep black finish
- Allows application to slightly curved surfaces

Physical Characteristics

	Test method ¹	Results	
Product			
Caliper, facefilm (micron)	ISO 534	165	
Caliper, facefilm + adhesive (micron)	ISO 534	200	
Caliper, liner (micron)	ISO 534	SPF-XI: 80	
		SPF Matte: 90	
		SPF Gloss Black: 90	
Gloss (GU)	ISO 2813, 20°	SPF-XI & SPF Gloss Black > 90 GU	
		SPF Matte < 15 GU	
Dimensional stability (mm max.)	DIN 30646	0.15	
Shelf life (years)	Stored at 22° C/50-55 % RH	1	
Adhesive			
Tensile strength @ Break (MPa)	ISO 527	>20	
Elongation @ Break (%)	ISO 527	>200	
Adhesion, initial 180° 20 min(N/m)	FINAT FTM-1, stainless steel	>350	
Adhesion, ultimate 180° 72 hours (N/m)	FINAT FTM-1, stainless steel	>600	
Temperature range			
Application temperature (Minimum: °C)		10	
Service temperature (°C to +°C)		-10 to +100	
Chemical properties²			
	Visual Inspection after exposure to following test fluids		
Gasoline Resistance	30 min	No Significant Change	
Diesel Resistance	24 hours	No Significant Change	
Water & Soap	24 hours	No Significant Change	
Mild Acids	4 hours	No Significant Change	
Cleaning Fluid	24 hours	No Significant Change	
Motor Oil	24 hours	No Significant Change	
Durability²			
	Zone 1	Zone 2	Zone 3
Vertical	10 years	8 years	6 years
Horizontal	7 years	4 years	3 years
Heat Aging	500 hrs @ 90°C		ΔE < 2
Water Immersion	400 hrs @ 40°C		No Significant Change

Important

Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of this document, the English version shall be prevailing and leading.

1) Test methods: More information about our test methods can be found on our website.

2) Prolonged immersion in gasoline and similar fluids is not recommended.

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