

# Avery Dennison®

## Paint Protection Film SPF Series

Revision: 4

Dated: 15/06/20

### 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.

### Description

Facefilm : 165 micron, top-coated thermoplastic polyurethane protected with PET sheet\*

Adhesive: permanent, UV resistant, solvent acrylic base

Liner: PET liner

\*SPF Matte does not have a protective PET sheet

### 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.

### 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

### Common Applications:

- 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

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### PRODUCT CHARACTERISTICS

Physical Properties		
Features	Test Method <sup>1</sup>	Reference Value
Caliper, Facefilm	ISO 534	165 µm
Caliper, Facefilm + Adhesive	ISO 534	200 µm
Caliper, Liner	ISO 534	SPF-XI: 80µm SPF Matte: 90 µm SPF Gloss Black: 90 µm
Tensile strength @ Break	ISO 527	> 20 MPa
Dimensional Stability	DIN 30646	0.15 mm max
Elongation @ Break	ISO 527	> 200%
Gloss	ISO 2813, 20°	SPF-XI & SPF Gloss Black > 90 GU SPF Matte < 15 GU
Shelf Life	Stored at 22°C 50-55 % RH	1 year
Application Temperature		Minimum: 10°C
Service Temperature		-40°C to +100°C

  

Adhesive Properties		
Features	Test Method <sup>1</sup>	Reference Value
Initial Adhesion 180° (20 min)	FINAT FTM-1, stainless steel	> 350 N/m
Ultimate Adhesion 180° (72 hours)	FINAT FTM-1, stainless steel	> 600 N/m

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<b>Durability<sup>2</sup></b>			
	<b>Zone 1</b>	<b>Zone 2</b>	<b>Zone 3</b>
<b>Vertical</b>	10 year	8 years	6 years
<b>Horizontal</b>	7 years	4 years	3 years
<b>Heat Aging</b>		500 hrs @ 90°C	ΔE < 2
<b>Water Immersion</b>		400 hrs @ 40°C	No Significant Change

### **Chemical Resistance**

Visual Inspection after exposure to following test fluids

<b>Gasoline Resistance</b>	30 min	No Significant Change
<b>Diesel Resistance</b>	24 hours	No Significant Change
<b>Water &amp; Soap</b>	24 hours	No Significant Change
<b>Mild Acids</b>	4 hours	No Significant Change
<b>Cleaning Fluid</b>	24 hours	No Significant Change
<b>Motor Oil</b>	24 hours	No Significant Change

#### **Important notice**

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.

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