

# PRODUCT DATA SHEET

## Avery Dennison® Paint Protection Film SPF X3

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### Introduction

AD Supreme Protection Film SPF-X3 is an engineered thermoplastic polyurethane film in transparent clear gloss finish, 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-X3 has a "self-healing" top coat, which helps small scratches in the film disappear when film is exposed to heat. The top coat of SPF-X3 has been specially designed to enhance its stain resistance, make the film easier to clean and maintain, and reduce potential discoloration or yellowing from stains or interaction with chemicals.

Avery Dennison Supreme Protection Films SPF-X3 is also validated for application above the water-line in the marine environment in combination with the Avery Dennison Edge Sealer. Our top-performing protection films are designed to protect your vessel's hull surface from regular wear and tear, scratches and weathering avoiding damages on the paint, wrap or the gelcoat of the hull, helping maximizing the retention of the boat's value.

Avery Dennison SPF-X3 is available in two widths: 1.52m and 1.83m. The 1.83m width film, SPF-X3 XL, is an excellent choice for more efficient coverage and protection of oversized surfaces, such as large hoods, bonnets, bumpers, trucks, trailers, and large marine vessels, with all the performance and aesthetic benefits of the 1.52m width film. While both widths may be utilized on different sections of the same vehicle or vessel, kiss-cut applications involving both widths on a single continuous surface are not recommended.

### Conversion

SPF-X3 is designed for vehicle paint and painted surface protection purposes and is easy to size by manual cutting during application or digital cutting plotters. It is also possible to apply SPF-X3 on top of pre-existing and applied Avery Dennison Supreme Wrapping Film™ should be applied using the wet application method. For more information please refer to [TB. 6.0 Application Instructions for Avery Dennison™ SPF Series](#) and [TB 6.3 Marine Application of Avery Dennison® Paint Protection Films](#).

Note: Always remove the protective PET top sheet immediately after cutting material from the roll or before converting using a plotter or flatbed cutter. Always store unused material on the roll and tightly wound and secure.

### Recommendations

For automotive applications:

- » Protection of the highly sensitive external surfaces of the vehicle, such as bumper, side mirrors, hood & wheel arches.
- » Protection of painted internal metal surfaces, such as luggage racks or chairs in busses or trains.
- » Protection of painted metal surfaces in high traffic areas, such as reception desks, door impact areas, wall panels and more.

For marine applications:



#### Face Film

165 micron gloss clear top-coated thermoplastic polyurethane (TPU) protected with PET sheet



#### Adhesive

Permanent, acrylic based



#### Backing

PET liner



#### Durability

Zone 1 vertical, 10 years



#### Shelf Life

1 year Stored at 22°C 50-55% RH

- » Protection of high exposure areas such as the fender rub, buoys areas, bathing platforms, wear areas of the hull in combination with the Avery Dennison Edge Sealer to protect the film edges

## Features

For automotive applications:

- » SPF-X3 topcoat enhances stain resistance, eases cleaning and minimizes yellowing. Many stains such as motor oil, sharpie marker and mustard can be cleaned just with a dried microfiber cloth.
- » Heat activated self-healing top coat provides good scratch resistance & recovery.
- » Protection of painted surfaces from stone chips, road debris, insect stains and weathering.
- » Exceptional visual properties - enhancing the look of the vehicle; optical clarity & high gloss finish.
- » Up to 10 years protection- maintaining the quality of vehicle finish.
- » Premium grade, conformable thermoplastic polyurethane (TPU) film.

For marine applications:

- » Premium Protection of the boat's hull against wear and tear from sand, salt and humid marine environment.
- » Improved resistance against weathering and stains.
- » Heat-assisted self-healing film for long lasting appearance.
- » Up to 7 years protection - improve life and resale value of your boat by protecting the hull surface.
- » New aesthetic opportunities for the look of your boat such as improving the gloss of the hull's surface.

## Physical Characteristics

	Test method	Results
<b>Product</b>		
Caliper, facefilm including topcoat (micron)	ISO 534	165
Caliper, facefilm + adhesive (micron)	ISO 534	203
Gloss (GU)	ISO 2813, 60°	>85
Dimensional stability (max. mm)	FINAT FTM 14	0.15
Shelf life (months)	Stored at 22° C/50-55 % RH	15
<b>Adhesive</b>		
Tensile strength (MPa)	ISO 527	>18
Elongation (%)	ISO 527	>250
Adhesion, initial 180° 20 min (N/m)	FINAT FTM-1, stainless steel	>550
Adhesion, ultimate 180° 72 hours (N/m)	FINAT FTM-1, stainless steel	>750
<b>Temperature range</b>		
Application temperature (Minimum: °C)		10
Service temperature (-°C to +°C)		- 40 to 100
<b>Chemical properties<sup>1</sup></b>		
	Visual Inspection after exposure to following test fluids	
Gasoline	30 min	No significant change
Car Wash solution	30 min	No significant change
Diesel	30 min	No significant change
Heptane	30 min	No significant change
10% Sulphuric acid	30 min	No significant change
Motor oil	30 min	No significant change
Solvent resistance	30 min	No effect exposed to: Isopropyl Alcohol

Durability for Automotive Applications <sup>2</sup>	Zone 1	Zone 2	Zone 3
Vertical	10 years	8 years	6 years
Horizontal	7 years	4 years	3 years

Durability of Avery Dennison Paint Protection Film SPF X3 for marine applications reduces by 30% of durability for automotive applications in all zones and applied orientations

#### Other tests

Heat aging	500h@90 °C	No significant change
Water Immersion	400h@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) Prolonged immersion in gasoline and similar fluids is not recommended.

2) Durability means that the products, subject to the limitations herein and Avery Dennison Product Data Sheets and Bulletins, and applied to recommended surfaces, shall not deteriorate excessively such as excessive film discoloration, excessive yellowing (dE>3, following the norm PV3929), cracking, crazing, blistering, excessive gloss changes (>20%, following the norm PV3929), or excessive dimensional change or loss of adhesion, due solely to not meeting Seller's Specifications. Written instructions and detailed descriptions of the conditions under which the Avery Dennison products are assumed to be used and maintained can be found in the relevant Data Sheets and bulletins as found on.

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