

# PRODUCT DATA SHEET

## Avery Dennison<sup>®</sup> Paint Protection Film SPF X2

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### Introduction

AD Supreme Protection Film SPF-X2 is a transparent thermoplastic polyurethane film, with a clear gloss finish, specially designed to protect the finish of a vehicle. It helps preventing the degradation of the original vehicle paint from small stone chips, some road debris, mild insect stains, small to medium scratches, mild chemical stains and general weathering. The top-coat of SPF-X2 has "self-healing" capabilities for smaller scratches on the film that disappear when the film is exposed to heat thus helping in the maintenance of the final look of the vehicle.

### Conversion

SPF-X2 is designed for vehicle paint and painted surface protection purposes and is easy to size by manual cutting during application or digital cutting plotters. SPF-X2 shall be applied using the wet application method. For more information please refer to [TB. 6.0 Application Instructions for Avery Dennison SPF Series](#).

SPF-X2 can also be applied on top of pre-existing and applied Avery Dennison Supreme Wrapping Film by standard application techniques.

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

- » Protection of the 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.

### Features

- » SPF-X2 topcoat provides stain resistance and minimizes yellowing;
- » Heat activated self-healing top coat provides good scratch resistance and recovery;
- » Protection of painted surfaces from small stone chips, some road debris, small insect stains and general weathering;
- » Improves visual properties - enhancing the look of the vehicle; optical clarity & high gloss finish;
- » Up to 7 years protection- maintaining the quality of vehicle finish;
- » Conformable thermoplastic polyurethane (TPU) film.



#### Face Film

135µm gloss clear top-coated thermoplastic polyurethane (TPU) protected with PET sheet



#### Adhesive

Permanent, acrylic based



#### Backing

PET liner



#### Durability

Zone 1 vertical, 7 years



#### Shelf Life

1 year Stored at 22°C 50-55% RH

## Physical Characteristics

Product	Test method	Results	
Caliper, facefilm (micron)	ISO 534	135	
Caliper, facefilm + adhesive (micron)	ISO 534	165	
Gloss (GU)	ISO 2813, 20°	85	
Dimensional Stability	FINAT FTM 14	<0.1%	
Shelf life (years)	Stored at 22° C/50-55 % RH	1	
<b>Adhesive</b>			
Tensile strength (N/mm <sup>2</sup> )	ISO 527	18	
Elongation (%)	ISO 527	250	
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	590	
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	785	
<b>Temperature range</b>			
Application temperature (Minimum: °C)		15	
Service temperature (-°C to +°C)		-40 to 100	
<b>Chemical properties</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% Sulfuric Acid	30 min	No significant change	
Motor Oil	30 min	No significant change	
Solvent resistance	30 min	No effect on exposure to: Isopropyl Alcohol	
<b>Durability<sup>1</sup></b>			
	<b>Zone 1</b>	<b>Zone 2</b>	<b>Zone 3</b>
Vertical exposure	7 years	6 years	5 years
Horizontal exposure	5 years	3 years	2 years
<b>Other tests</b>			
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) 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 (gloss change >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 our website.

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