

Avery Dennison®

Paint Protection Film SPF-XI

Revision: 2

Dated: 12/09/18

Introduction

AD SPF-XI paint protection film is a transparent clear thermoplastic polyurethane film that is 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 colour.

On top, SPF-XI have “self-healing” top coat, which helps small scratches in the film disappear at room temperature and medium scratches when film is exposed to heat.

Description

Facefilm : 165 micron, top-coated thermoplastic polyurethane protected with PET casting sheet
Adhesive: permanent, UV resistant, solvent acrylic base
Liner: PET liner

Conversion

Product is designed for vehicle paint and painted surface protection purposes and is easy to size by manual cutting during application. 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”- small scratches in the film that will disappear in room temperature and medium scratches when film is exposed to heat.
- Up to 10 years protection- maintaining the quality of vehicle finish
- Optical clarity & High gloss finish - enhancing the look of vehicle
- Allows application to slightly curved surfaces

Common Applications:

- Protection of the highly sensitive external surfaces of vehicle like; bumper, side mirrors, hood, 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

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PRODUCT CHARACTERISTICS

Physical Properties		
Features	Test Method ¹	Reference Value
Caliper, Facefilm	ISO 534	165 µm
Caliper, Facefilm + Adhesive	ISO 534	203 µm
Caliper, Liner	ISO 534	77 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°	>120 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 ¹	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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Durability ²			
	Zone 1	Zone 2	Zone 3
Vertical	10 years	7 years	4 years
Horizontal	7 years	3.5 years	2 years
Heat Aging		500 hrs @ 90°C	$\Delta E < 2$
Water Immersion		400 hrs @ 40°C	No Significant Change

Chemical Resistance

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

Important

Information on physical and chemical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. 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.

Warranty

All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes.

All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>.

1) Test methods

More information about our test methods can be found on our website.

2) Durability

Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure, in industrially polluted areas or high altitudes, exterior performance will be decreased.