

Avery Dennison SPF-X7 Paint Protection Film

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Introduction

Avery Dennison® SPF-X7 Paint Protection Film is a premium grade clear top-coated aliphatic polyurethane film, using XProof™ top coating technology, showing top level of stain resistance, with more thickness and better protection to your cars. Designed to protect automotive paint surfaces. The good performance against stone-chipping, scratching and abrasion effectively prevent damage and corrosion on the paint surface, like wearing a ultra-transparent protective coat.

Paint Protection Film- Features & Advantage

- XProof™ top coating technology, superior heat healing, and high level of stain and rain spots against
- Clear and optical transparent pressure-sensitive adhesive and premium TPU film, do not change the color of your car.
- Improve the gloss of your car, as shining as new.
- Good dimensional stability, not easy to shrink.
- Excellent weather resistance, keep clear and transparent for a long time in an outdoor environment.
- High hydrophobic property, easy cleaning
- Good conformability, easy installation

Paint Protection Film- Application

- Recommended install on automotive, motorcycle, RV, bicycle and most model of transportation
- For optimal application performance, the substrate and ambient temperature should be within 15°C to 35°C

Paint Protection Film- Product characteristics

Physical properties

Features	Test method	Results
Face film+Top coating	ISO 534	7.1 mil
Adhesive	ISO 534	1.2 mil
Tensile strength	ISO 527	25 MPa
Elongation at break	ISO 527	300 %
Gloss(60°)	ISO 2813	95 GU
Mil. spec. shrinkage	FINAT , FTM-14	< 0.1 %

Adhesive properties

Sample Preparation	Test method	Peel Strength
20 mins	FINAT , FTM-1, SS	550 N/m
24 Hours	FINAT , FTM-1, SS	750 N/m

Durability		
QUV Aging Heat Aging	ASTM D4956, 2500hrs 90°C, 500hrs	$\Delta E < 3$, gloss change < 10% $\Delta E < 5$
Shelf life Durability	Stored at 15-30° C/45-55 % RH Vertical application (zone 2)	12 months 10 years
Chemical Resistance properties		
1) Visual inspection after exposure to following test fluids		
Gasoline, 30 mins		No significant change
Carwash solution, 30 mins		No significant change
Antifreeze, 30 mins		No significant change
Diesel, 30 mins		No significant change
Engine oil, 30 mins		No significant change
Isopropyl alcohol, 30 mins		No significant change
Heptane, 30 mins		No significant change
10% Sulphuric acid, 30 mins		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

Avery Dennison® branded materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorized to give any guarantee, warranty, or make any representation contrary to the foregoing. All Avery® branded materials are sold subject to the above conditions, being part of our standard conditions of sales, a copy of which is available on request.