

PPF Ultima Plus Satin

Performance Plus Grade Satin Paint Protection Film

Revision 1

Introduction

Avery Dennison® PPF Ultima Plus Satin Paint Protection Film is designed as an optically-clear film, ideal for superior protection of OEM painted surfaces from stone chips, road debris, insect stains and weathering. Used as a protective film in automotive, RV, marine and architectural markets.

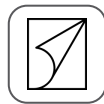
Common Applications

- Motor vehicle surfaces
- Marine craft surfaces
- Architectural surfaces



Face Film

150 micron satin clear top-coated aliphatic thermoplastic polyurethane (TPU) film



Backing

75 micron Polyester



Adhesive

Permanent, acrylic based



Outdoor life**

Up to 10 years

Features

- High Gloss Top Coat
- Heat activated self-healing top coat provides excellent scratch resistance
- Highly conformable aliphatic thermoplastic polyurethane (TPU) film
- Superior protection of OEM painted surfaces from stone chips, road debris, insect stains and weathering
- Exceptional optical clarity providing invisible protection
- Outstanding durability and outdoor life
- Excellent UV, temperature, humidity, chemical and salt-spray resistance
- Excellent adhesion to new generation of automotive clear coats

Conversion

- Flatbed cutters
- Friction fed cutters
- Die cutting
- Hand cutting

Applications

Wet application recommended. Soap Solution: Combine 100% distilled water with 2 ml of soap per litre of water.

- Refer to [Instructional Bulletin 1.01](#) for Substrate Cleaning and Preparation
- Refer to [Instructional Bulletin 1.15](#) for Application Instructions for PPF

*Note: Always store unused material on the roll and tightly wound and secure.

General

Roll width, length	1524mm	15m
Caliper, face film	ISO 534	150 micron
Caliper, face film & adhesive	ISO 534	180 micron
Gloss	ISO 2813 @60°	15 GU
Dimensional Stability	FINAT FTM-14	<0.1%
Tensile strength	ISO 527	20 MPa
Elongation	ISO 527	250%
Adhesion, initial	FINAT FTM-1, Stainless steel	640 N/m
Adhesion, ultimate	FINAT FTM-1, Stainless steel	800 N/m
Shelf life	Stored at 22° C/50-55 % RH	18 months
Expected Durability**	Horizontal exposure	Up to 10 years

Thermal

Application temperature	Between 15°C & 35°C
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Chemical

Gasoline, 30 min	No effect
Car Wash solution, 30 min	No effect
Antifreeze, 30 min	No effect
Diesel, 30 min	No effect
Heptane, 30 min	No effect
10% Sulphuric acid, 30 min	No effect
Isopropyl alcohol, 30 min	No effect

Important

Information on physical 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 any material for their specific use.

All technical data is subject to change without prior notice.

Warranty

Avery Dennison® 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 authorised to give guarantee, warranty, or make any representation contrary to the foregoing. All Avery Dennison® materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

**Warranted Period Definitions

The warranted period is the maximum period of time Avery Dennison® will warrant the finished products performance in accordance with the PPF Warranty Terms and Conditions, provided that the film is properly stored, converted and installed in accordance with Avery Dennison® guidelines. Warranty is based on Australia and New Zealand outdoor exposure conditions in Zone 2, unless otherwise stated, and is applied to recommended substrates. For details on warranted period please see PPF Warranty Bulletin.

Testing Methods

Dimensional stability:

Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°C, after which the shrinkage is measured.

Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

Flammability:

A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Corrosion Resistance:

A specimen applied to aluminium is exposed to saline mist (5% salt) at 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.



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