

Supreme™ PPF Enduro Paint Protection Film

Revision 1

Introduction

Avery Dennison® Supreme™ PPF Enduro Paint Protection Film is designed as an optically-clear film, ideal for 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
135 micron gloss clear top-coated aliphatic polyurethane (PU) film



Backing
75 micron Polyester



Adhesive
Permanent, acrylic based



Outdoor life**
Up to 5 years

Features

- Attractive gloss finish
- Heat activated self-healing top coat provides effective scratch resistance
- Optimum conformability of aliphatic polyurethane (PU) film
- Effective protection of OEM painted surfaces from stone chips, road debris, insect stains and weathering
- Optical clarity providing invisible protection
- Sufficient durability and outdoor life
- UV, temperature, humidity, chemical and salt-spray resistance
- Good adhesion to new generation of automotive clear coats
- Protective PET top sheet helps maintain gloss and surface uniformity during transport*

Conversion

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

South Asia
December 2024

Application

- Wet application only. Slip Solution: Combine 100% distilled water with 2 ml of recommended soap per litre of water.
- For installation tips and guides please refer to Avery Dennison® Instructional Bulletins:
 - 1.01 Substrate Cleaning and Preparation
 - 1.15 Application Instructions for SPF Supreme Protection Film

*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.

General

Calliper, face film + Top Coat	ISO 534	135 micron
Adhesive	ISO 534	30 micron
Gloss 60°	ISO 2813	90 GU
Mil. spec. shrinkage	FINAT, FTM-14	<0.1%
Tensile strength	ISO 527	25 MPa
Elongation at break	ISO 527	250%
Adhesion, initial	FINAT FTM-1, Stainless steel	550 N/m
Adhesion, ultimate	FINAT FTM-1, Stainless steel	750 N/m
Shelf life	Stored at 22° C/50% RH	12 months from Mfg dt.
Expected Durability**	As per (Zone 2)	Outdoor: 5 years

Thermal

Application temperature	Between 15°C & 30°C
-------------------------	---------------------

Chemical

Gasoline, 30min	No effect
Car Wash Solution, 30min	No effect
Antifreeze, 30min	No effect
Diesel, 30min	No effect
Heptane, 30min	No effect
10% Sulphuric acid, 30min	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.

**Expected Durability

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within Zone 2 of the Avery Dennison zone system, in outdoor vertical exposure conditions.

The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films.

In case of films used in areas of high temperatures or humidity, high altitudes and industrially polluted areas the performance will be further reduced.

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. 30 Mins 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.



Avery Dennison warrants that its Products meet its specifications. Avery Dennison gives no other express or implied guarantees or warranties with respect to the Products, including but not limited to, any implied warranties of merchantability, fitness for any particular use and/or non infringement. All Avery Dennison products are sold with the understanding that the purchaser has independently determined the suitability of such products for its purposes. The period of warranty is one (1) year from the date of shipment unless expressly provided otherwise in the product data sheet. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <https://graphicsap.averydennison.com/terms>. Avery Dennison's aggregate liability to Purchaser, whether for negligence, breach of contract, misrepresentation or otherwise, shall in no circumstances exceed the price of the defective, non-conforming, damaged or undelivered Products which give rise to such liability as determined by net price invoices to Purchaser in respect of any occurrence or series of occurrences. In no circumstances shall Avery Dennison be liable to Purchaser for any indirect, incidental or consequential loss, damage or injury, including without limitation, loss of anticipated profits, goodwill, reputation, or losses or expenses resulting from third party claims.

© 2021 Avery Dennison Corporation. All rights reserved. Avery Dennison and all other Avery Dennison brands, this publication, its content, product names and codes are owned by Avery Dennison Corporation. All other brands and product names are trademarks of their respective owners. This publication must not be used, copied or reproduced in whole or in part for any purposes other than marketing by Avery Dennison.