

# Avery Dennison® Supreme Defense™ Paint Protection Film

Polyester Liner

Revision: 0 Dated: 07/20/20

## Uses:

Avery Dennison Supreme Defense paint protection film improves and safeguards vehicle aesthetics, while helping to retain resale value. A high quality polyurethane film helps to prevent damage from a range of challenges such as stone chips, road debris, insect stains and weathering - all without degrading the original paint finish, thanks to self-healing top-coat. The film is easy to apply, and ultra-clear to ensure excellent aesthetics.



**Face:** 6.5 mil (165 micron) clear top coated polyurethane film gloss and matte finish



**Adhesive:** Permanent Acrylic (clear)



**Durability:**  
Matte - Up to 5 years



**Liner:** 3 mil Polyester

**Application Surfaces:** Flat, simple curves, and compound curves

## Features:

- Top coated, matte finish
- Self healing top coat provides excellent scratch resistance
- Premium grade, conformable polyurethane (PU) film
- Helps to protect painted surfaces from stone chips, road debris, insect stains and weathering
- 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 Sign-Cut
- Sign-Cut
- Hand Cutting

## Common Applications:

- Automotive
- Recreational Vehicles

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## Physical Characteristics:

Property	Measurement	Typical Value
Caliper, face		6.5 mil (165 µm)
Caliper, adhesive		1.5 mil (38 µm)
Dimensional stability		<0.0059" (0.15 mm)
Tensile at Yield		tensile at break 28 lbs/in
Elongation		>200%
Gloss	Hunter Gloss @ 60 degrees Matte	< 20 GU
Adhesion:	Stainless Steel 15 min 24 hr	<u>Matte</u> 2.3 lbs/in (455 N/m) 3.6 lbs/in (630 N/m)
Flammability	FMVSS 302	Self Extinguishing
Shelf-Life		1 year from the date of manufacture (when stored at the following temperatures and humidity conditions 68°-77° F (20° - 25° C) and 50±5% R. H.)
Durability	Vertical Exposure Horizontal Exposure	<u>Matte</u> 5 years 5 years  NOTE: New Mexico, Nevada, Arizona, Colorado, Southern California, and Hawaii will have a 2 year reduction in durability
Rock Chip Testing	SAE J400	Pass
Min. Application Temperature		50° F (10° C) Flat & Simple Curves 60° F (16° C) Complex Curves  NOTE: When application temperatures are at the minimum recommended temperature, using a warm slip solution will help improve initial adhesion.
Service Temperature		-40° to 212°F (-40° to 100° C) (Reasonable range of temperatures which would be expected under normal environmental conditions).
Chemical Resistance	Motor Oil Windshield Washer Fluid Water 20% Iron Oxide Rust Road Tar Black Spray Paint	24 hours - no significant change 24 hours - no significant change 24 hours - no significant change 24 hours - no significant change (after surface wiping with 90% IPA) 24 hours - no significant change (after surface wiping with 90% IPA)

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## **Application:**

Avery Dennison Paint Protection Film is designed for application on solid surfaces such as passenger vehicles and recreational vehicles.

## **Durability:**

Durability is the period of time the product is expected to perform satisfactorily when applied vertically or horizontally in any zone or region., provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines. The term of Avery Dennison's warranty is equal to the product's durability.

Abrasion and Loss of Gloss are not covered by any Avery Dennison Warranty. These changes are considered normal wear and tear.

Other factors which may reduce the durability of this product series include: surface texture, surface preparation, application method, angle and direction of the sun, environmental conditions, cleaning & maintenance.

Products containing petroleum distillates or solvents such as soaps, waxes, or protective coatings, void any warranty, and may cause premature failure of the material.

Revisions are italicized

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