Avery Dennison® Supreme Defense™

Paint Protection Film

Revision: 7

Dated: 11/12/26

Uses:

Avery Dennison® Supreme Defense™ paint protection film improves and protects vehicle aesthetics across all vehicle types. From luxury vehicles to high-volume daily commuters, fleets, and lease vehicles. High-quality polyurethane film prevents damage from stone chips, road debris, insect stains, and environmental weathering without degrading the original factory finish, thanks to an advanced self-healing topcoat. The film is plotter-friendly, easy to apply, and ultra-clear for superior installation aesthetics.

Caliper - Supreme Defense - 8 mil
Caliper - Supreme Defense Lite -7.5 mil

Face Film: 6.5 mil (165 micron) gloss top coated polyurethane film

Adhesive: Permanent Acrylic (clear)

Liner: 3 mil Polyester

Durability:
Supreme Defense Gloss up to *10 years*
Supreme Defense Gloss Lite & Matte up to 7 years
(see physical characteristics chart on page 2)

Shelf Life: 2 years

Application Surfaces: Flat, simple curves, and compound curves

Features

- Top coated, high gloss or 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
- 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
- Supreme Defense Gloss Lite features a removable protective cap sheet
- Plotter-friendly for efficient pattern software cutting

Conversion

- Flatbed Sign-Cut*
- Sign-Cut*
- Hand Cutting*

*Note: The protective cap sheet on Supreme Defense Gloss Lite must be removed prior to plotting, flatbed cutting, or hand application.

Common Applications

- Automotive
- Recreational Vehicles

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Physical Characteristics

Data represents average values where applicable, and is not intended for specification purposes.

Property	Measurement	Typical Value
Caliper, face		6.5 mil (165 µm)
Caliper, adhesive	SD Gloss & Matte SD Gloss Lite	1.5 mil (38 µm) 1 mil (25 µm)
Dimensional stability		<0.006” (0.15 mm)
Tensile at Break	SD Gloss & Matte SD Gloss Lite	18.8 lbs/in 26 lbs/in
Elongation	SD Gloss & Matte SD Gloss Lite	>200% >250%
Gloss	Hunter Gloss @ 20 degrees	Gloss - >90 GU Matte - >20 GU
Adhesion	Stainless Steel 15 min 24 hr	SD Gloss / SD Gloss Lite / Matte 2.3 lbs/in (403 N/m) / 3.6 lbs/in (630 N/m) / 2.3 lbs/in (403 N/m) 4.2 lbs/in (700 N/m) / 4.5 lbs/in (788 N/m) / 3.6 lbs/in (630 N/m)
Flammability	FMVSS 302	Self Extinguishing
Shelf-Life		2 years 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		SD Gloss / SD Gloss Lite / Matte Vertical Exposure: 10 years / 7 years*. / 7 years* Horizontal Exposure: 10 years / 7 years* / 7 years* *NOTE: New Mexico, Nevada, Arizona, Colorado, Southern California, and Hawaii will have a 2-year reduction in durability
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).
Rock Chip Testing	SAE J400	Pass
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 24 hours - no significant change NOTE: Surface was wiped clean with 90% IPA after indicated exposure.
Compliance		California Proposition 65
MSDS		MSDS Article Letter

Related Documents

The following Avery Dennison literature will provide necessary information to the user for proper application, storage, and other requirements and is available upon request from your Avery Dennison representative or from the Avery Dennison website (www.graphics.averydennison.com).

Document Title	Reference Number
Substrate Cleaning and Preparation	Instructional Bulletin #1.10
Cleaning and Maintenance of Vehicle Wraps	Instructional Bulletin #1.50
Paint Protection Film Application	Instructional Bulletin #4.30

Application

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

If using Avery Dennison Paint Protection Film on applications other than passenger vehicles or recreational vehicles it is up to the installer to test and determine suitability for use.

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.

⚠WARNING Failure to install the film in full compliance with Avery Dennison's installation instructions may result in personal injury or property damage. Read and follow all instructions when installing the film.

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Warranty:

For window film specific warranty terms and conditions please visit: graphics.averydennison.com/en/home/services/warranty/window-film-warranty.html