

AUTOZKIN PPF-Standard Paint Protection Film Standard

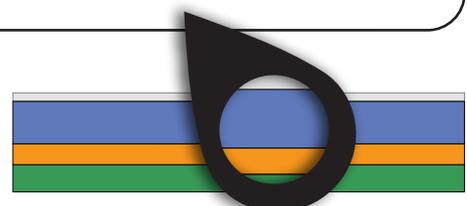
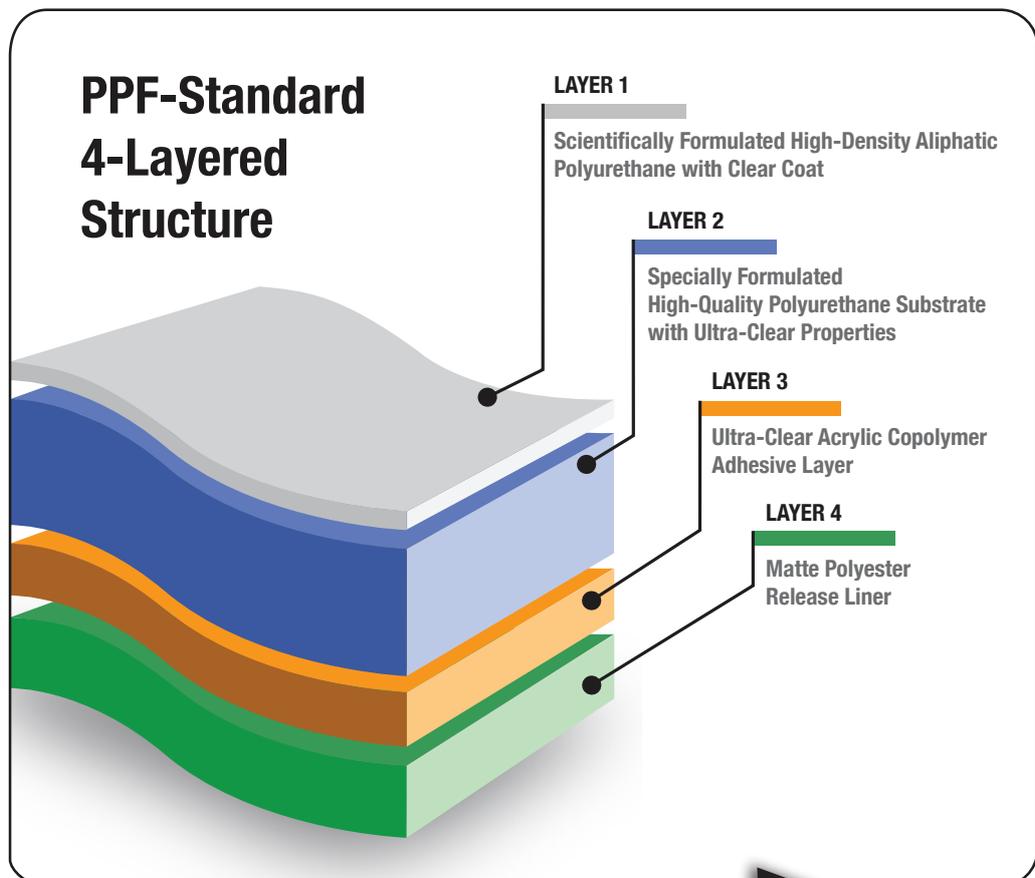
The Obvious Solution

Top Quality High-Functioning Ultra-Clear Aliphatic Polyurethane Film

General Description

Autozkin PPF is available in Standard and Premium grades. Autozkin PPF-Standard is a scientifically engineered transparent polyurethane film designed to effectively protect paint and surfaces of new or used vehicles from everyday road hazards, and keep daily-driven automobiles in prime condition through environmental conditions to which they are exposed. Compliant to all makes and models of automobiles, this flexible film is coated with an ultra-clear acrylic adhesive which will grip to curves and edges of vehicles firmly without lifting and peeling off. Our PPF-Standard is tough, durable, scratch- and mar-resistant, non-yellowing and environmentally friendly, yet so thin. When applied, it is impossible to detect. The invisible appearance coupled with its high gloss attribute keeps the protected paintwork finish as new as ever. Once applied, our film will provide many good years of protection. Removal of the film years later will not cause damage to the original paintwork. Get the optimum protection for your asset and upkeep a high resale value with our PPF. Autozkin PPF-Standard will perform to the highest demand and satisfy your asset protection needs.

Schematic Representation of Autozkin PPF-Standard



Specific Technical Information

Autozkin PPF-Standard is composed of 4 distinct layers. Scientifically formulated aliphatic polyurethane substrate with clear coat technologies meant for the best preservation of original paint surfaces, it meets automotive OEM (Original Equipment Manufacturer) specifications. This film has been rigorously tested and approved by INTERTEK to be highly flexible and adhesive, super tough and durable, and able to withstand abrasions from regular or daily exposure of the automotive to physically straining and high-wear road conditions.

Lower quality PPF available in the market will turn yellowish or bluish very fast over time. Autozkin PPF is light and UV-resistant and has the capacity to guard against aging, yellowing or embrittlement. Being resistant to liquid penetration and chemical contamination by soap, acid, oil or salt spray, our film is also strong enough to withstand heat, weathering and liquid immersion far better than other products in the market. Because of the film's technological advantages, complex or high level detailing of the asset won't be necessary to maintain the high gloss effect if you have Autozkin PPF-Standard installed. Basic washing, polishing or waxing procedures will be sufficient to upkeep the film's outstanding shine in showroom finish condition with Autozkin PPF-Standard.

LAYER 1

The first layer substrate comprises of UV and light-stable, flexible, high strength aliphatic urethane composition. Being a 'hard coat' external liner with excellent scratch-resistant and mar-resistant qualities, it has no problem fending off abusive impacts of rocks, stone chips and flying debris on the road. This layer possesses good abrasion and tear resilience, and allows the protected surface to heal from scratches and abrasions. Since it is specially designed to withstand discoloration and substance contamination, the film's ultra-clear, transparent and smooth texture with self-healing properties will maintain the beautiful luster of a new vehicle, or renew and restore a beloved asset to its original sheen.

LAYER 2

This layer is made of high grade polyurethane compounds that are extremely tough, resilient, and abrasion resistant. Apart from being a good aid in the protection against typical road hazards, it also possesses excellent flexibility and memory retention when stretched, and has the ability to hold structural integrity in extreme temperatures. It enables a firm grip over the shapes and curves of the parts of the vehicle surfaces without giving way, lifting or peeling off, thus ensuring your asset receives best coverage and stout protection completely through.

LAYER 3

Made to perfectly adhere to automotive painted surfaces, this layer performs amazing shock-absorbing and impact-dispersion functions. Impact forces and vibrations from stone chips, rocks and flying debris are effectively reduced as they are diverted away from points of contact. Autozkin PPF-Standard guards the vehicle's paint and protected surfaces very well.

LAYER 4

The film is completed with a thin layer of matte polyester release liner. Polyester film is durable and has good chemical resistance. It can keep itself structurally stable over a wide range of temperatures and humidity levels, thus possesses good handling characteristics. This release liner helps with the ease of installation and will be peeled off prior to installation.

Properties of PPF-Standard

Characteristics	Testing Method	Unit of Measure	Typical Results
Peel Adhesion Initial Peel Normal State After Heat Age After Water Immersion After Accelerated Weathering	TSM7505G	1 hr @ RT 7 days @ RT 16 days @ 80°C 400 hr 40°C 1000 hr	5.6 N/cm 7.53 N/cm 17.6 N/cm 10.2 N/cm 14.6 N/cm
Gloss	BS EN ISO 2813	20 Degree	>95 %
Aging Test (Appearance) Heat Age Water Immersion Post Xenon Weathering Outdoor Exposure Boiling Water Resistance	TSM7505G	1 hr @ RT 7 days @ RT 16 days @ 80°C 400 hr 40°C 1000 hr	5.6 N/cm 7.53 N/cm 17.6 N/cm 10.2 N/cm 14.6 N/cm
Stone Chip Resistance - Gravelometer	ASTMD3170	Chipping ratings per SAE	Pass No Detrimental Effect
Mechanical Ultimate Strength @ Break Modulus Tensile Elongation @ Break	ASTMD638-95	Test rate: 1.0 mm/min	66.7 MPa 58.4 MPa 420.7%
Solvent Testing Water & Soap Spotting Acid Spotting Salt Spray Resistance Gasoline		Immerse for 30 min check in 24 hrs for change	No Detrimental Effect No Detrimental Effect No Detrimental Effect No Detrimental Effect

Above data are typical values, not guaranteed to the product. Published in January 2015.

Typical Industry Sector Applications

Autozkin PPF-Standard is suitable for the effective protection of OEM approved paint and external surfaces of automotives, including luxury sports cars, regular cars, motorcycles, recreational vehicles, trucks, buses, trains, aircrafts, yachts, jet skis and other power sports that are exposed to an array of outdoor environmental conditions. For newly purchased vehicles, our PPF-Standard can either be applied to any vulnerable or high impact areas of the vehicle, or be applied to all external paint surfaces of the vehicle as a total asset protection package.

Typical Reasons for Application

Autozkin PPF-Standard is particularly effective in protecting the automotive paint and external surfaces from every day nasty road hazards such as dirt and dust debris, flying rocks and stone chips, as well as extensive wear and undesirable abrasion. This high-quality, high-functioning, tough and strong ultra-clear polyurethane film will certainly enhance and preserve the glossy shine of your asset's showroom finish condition, while at the same time, continuously apply its self-healing properties to renew and restore that original beautiful luster to upkeep a high resale value.

Warranty Information

For added peace of mind and protection, Autozkin offers a 5-year Limited Warranty for the PPF-Standard, the original product purchased from Autozkin, free of discernible manufacturing defects and used for its intended purposes. This Limited Warranty shall be limited to a period of 5 years from the date of purchase by the original retail purchaser. Autozkin will replace any film that does not meet this warranty. The warranty does not cover damage to the film caused by faulty or incorrect installation done elsewhere, or damages, incidental, consequential or otherwise, such as accidents or collisions, intentional negligence, misuse, abuse, neglect, alteration or vandalism, or routine deterioration or damage such as chips or dents to the protected surface or film caused by impact of particles such as flying objects, loose rocks or any other debris. This warranty is only valid as to the original retail purchaser from Autozkin and is therefore not transferable or assignable to any other parties, by operation of law or otherwise. Please contact Autozkin for more information regarding the warranty offer.

About Installation

Autozkin PPF-Standard can be installed to any fully cured external OEM (Original Equipment Manufacturer) painted surface or repainted surfaces which have been repainted according to manufacturer's standards. The installation process requires meticulous cutting and precise positioning of the film over the protected surface. It is highly recommended that an approved Autozkin skilled installer perform the film installation. Nevertheless, detailed instructions can be made available for those who wish to install the film themselves. Autozkin PPF-Standard is to be stored at 50°F (10°C) in enclosed shelving away from direct sunlight at 40% to 60% relative humidity (RH), and be used within one year from the date of purchase. Please contact Autozkin for more information regarding the installation of film.

Disclaimer Notes

Autozkin Co., Ltd has provided this Technical Fact Sheet as a helpful resource to complement its PPF product range. However, it is vital the customer is aware of the specific conditions in which the product is to be used, and it remains the customer's responsibility to determine if the product is suitable for that intended use. It is also important to refer to the most up-to-date industrial data or facts as specifics may change from time to time.

The following links may be a helpful resource for further information about PPF products.

- Autozkin Website: www.autozkin.com/
- Design News Article about Thermoplastic Polyurethane Film: www.designnews.com/document.asp?doc_id=220141&dfpPParams=aid_220141&dfpLayout=article
- Autozkin on Instagram: www.oninstagram.com/autozkin
- Youtube Clips: <https://www.youtube.com/watch?v=Qj131DyldVM>; <https://www.youtube.com/watch?v=AJ1CvUmP8YI>



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