

AUTOZKIN PPF-PREMIUM Paint Protection Film Premium

autozkin™
Passion Enables Innovation

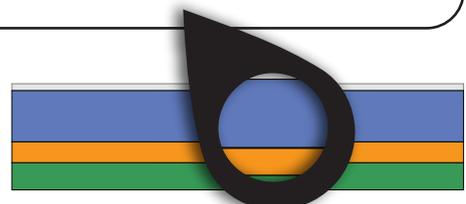
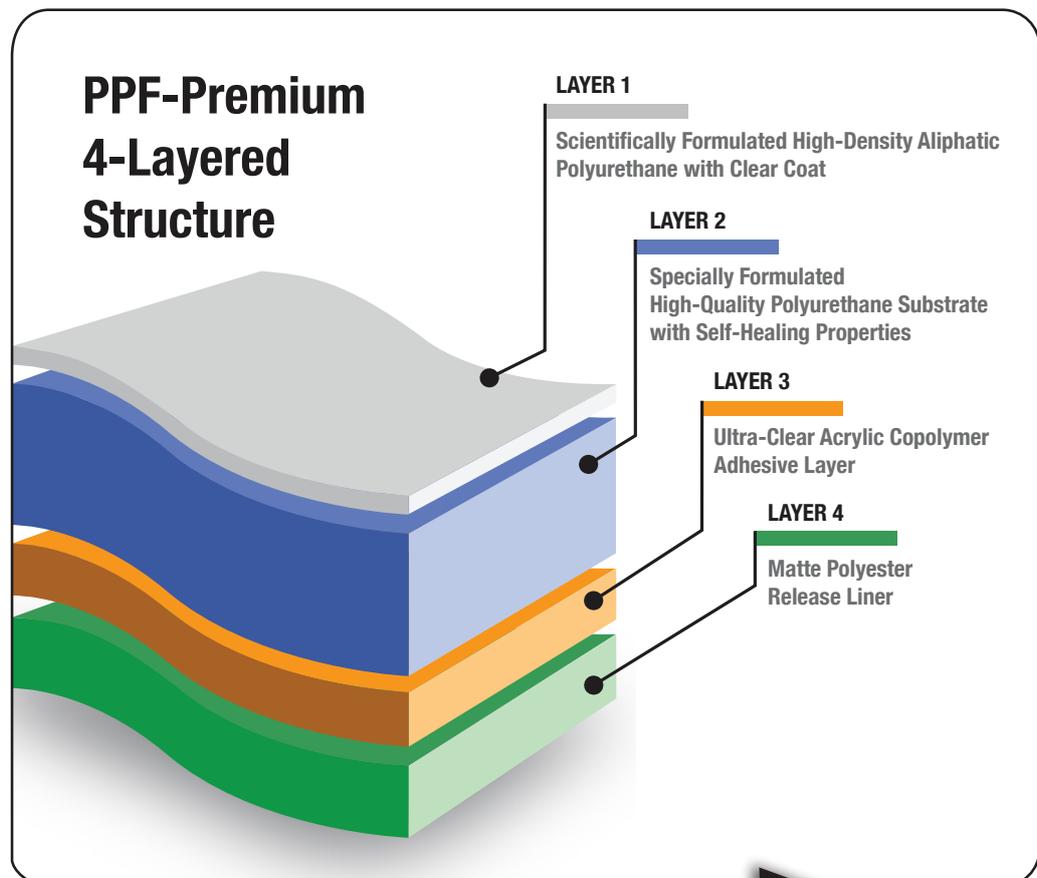
The Exquisite Solution

High-Performance Durability Ultra-Clear Aliphatic Polyurethane Film

General Description

Autozkin PPF is available in Standard and Premium grades. Autozkin PPF-Premium raises the bar in protecting your vehicle. As the premium choice for those who desire the most exquisite paint protection for their asset, this precisely engineered, high-performance durability self-adhesive polyurethane film is the most effective shield against unexpected harsh hits from stone chips, rocks, flying debris, and effects of scratches, abrasion and wears. As a very low surface energy film, it can retain its gloss indefinitely. Designed to resist discolouration and staining from contaminants and environmental factors, the film has unique refining qualities that guard against harmful strong sun and UV rays. With our PPF-Premium, your asset is guaranteed the most glorious appearance. With its amazing self-healing and anti-aging scientific properties, scratch marks on protected surfaces will disappear right before your eyes. Autozkin's commitment to providing our customers with the best quality protection has now brought about, to every proud owner of their precious asset, the availability of an exquisite super-performance PPF product that is unmatched in worth.

Schematic Representation of Autozkin PPF-Premium



Specific Technical Information

Autozkin PPF-Premium, like Autozkin PPF-Standard, is composed of 4 distinct layers. It differs in that the second layer is a thicker polyurethane substrate with a remarkable capability to retain its flexibility and structural memory when stretched over protected surfaces of highly complex geometries not typically found in common automobiles. On the road, this means that our PPF-Premium is most suitable for applications on different makes and models of high-performance super cars and super bikes of much complex curvature and aerodynamic designs that are unconventional in the first place. Like the PPF-Standard, our PPF-Premium is rigorously tested and approved by INTERTEK to be highly flexible and adhesive, super tough and durable, and able to withstand abrasions from daily exposure to physically straining and high-wear road and weather conditions. For original paint protection applications, Autozkin only uses and supplies PPF of pure transparency grade. There is absolutely no inclusion or contamination of any pigment or other colouring agent whatsoever in any of the layers of Autozkin PPF products. Rugged and crystal clear, Autozkin PPF-Premium is, no doubt, the toughest and strongest protector for asset protection against aging, discolouration, staining, corrosion and contamination in the market.

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 discolouration 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 the highest grade polyurethane compounds that are extremely tough, resilient, and abrasion resistant. Apart from being a powerful protector against typical road hazards, it also possesses excellent flexibility and memory retention when stretched, carries a punctured-proof personality, and has the ability to hold structural integrity in extreme temperatures. Autozkin PPF-Premium is renowned to have the capacity to apply self-controlled healing and regeneration to its flexibility, yet rigidity, characteristics in a fast cure time. Autozkin PPF-Premium is, without question, made to be stronger in every sense and much more enduring than any other PPF products in the market, including its excellent weathering ability and superb robust strength to resist oil, grease, chemicals and solvents of any sort. Due to the film's excellent dimensional stability that can hold itself firmly over complex and sharpened shapes, curves and parts of vehicles, especially that of super cars and exotic motorbikes, your precious asset is assured the unfeigned and highest level of protection with Autozkin PPF-Premium completely through.

LAYER 3

Intended to give additional structural strength and enable perfect bonding and adhesion to protected surfaces of complex curves and geometries, the elastic property of this acrylic copolymer adhesive layer provides extra cushioning and impact-resistant benefits to the layers above. Impact forces and vibrations from stone chips, rocks and flying debris are effectively diverted and reduced, ensuring no harm done to all protected surfaces.

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-Premium

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	>96 %
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	64.9 MPa 57.3 MPa 310.5%
Solvent Testing Water & Soap Spotting Acid Spotting Gasoline Lacquer Thinner Enamel Reducer Acetone		Immerse for 30 min check in 24 hrs for change	No Detrimental Effect No Detrimental Effect 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-Premium is particularly useful for applications in which the film is applied to OEM approved external surfaces of new and repainted automotive having unusual curved shapes and complex geometries. It is well suitable for, and will effectively protect, the external surfaces of an array of vehicles, including luxury sports cars, regular cars, super motorbikes, recreational vehicles, trucks, buses, aircrafts, snowmobiles, yachts, jet skis and other power sports. Autozkin PPF-Premium is highly effective against daily undesirable hazards such as flying debris, tar, sand, rocks, stone chips, including insects and grease. For vehicles exposed to long and high-speed cruising on highways, city roads, or near to areas of high industrial activities, Autozkin PPF-Premium is the best paint protection product choice for those who truly appreciate the exquisite.

Typical Reasons for Application

The truly discerning will appreciate the worth of investing in this invention – a super-performance, high-durability, ultra-clear, high-gloss aliphatic polyurethane film made of the finest materials in the world. Particularly effective in protecting automotive paint and external surfaces, this film is superbly designed to fend off the attacks of nasty road hazards such as dirt and dust debris, flying rocks and stone chips, as well as extensive wear and undesirable abrasion. Its exceptional self-healing properties and robust nature can only act to help enhance and preserve the glossy shine of the original showroom finish condition, while at the same time, maintain and uphold the resale value of your asset indefinitely.

Warranty Information

For added peace of mind and protection, Autozkin offers a 5-year Limited Warranty for the PPF-Premium, 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-Premium 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-Premium 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&dfpPPParams=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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