


**marvelous**

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**marvelous paint protection film**

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[www.bluechemgroup.com](http://www.bluechemgroup.com)





## INTRODUCTION

Expertly designed to deliver the highest level of protection, **Marvelous Paint Protection Film** is a specially formulated Thermoplastic Polyurethane film. When applied to vehicles, the film not only protects from scratches and dents, but also from the damages made by road debris and rocks, in addition to the elements of the environment. With proven reliability and consistent performance. It's time to put your confidence in Marvelous Paint Protection Film.

## DESCRIPTION

**Marvelous Paint Protection Film** is manufactured by coating specially formulated acrylic based adhesive, self healing coated Thermoplastic Polyurethane film (TPU) and laminating with Matte silicon coated released liner. Protection film is put on top of Self healing coating.

## PRODUCT CONSTRUCTIONS

PET protection film	- 2 mil
Self healing coating	- 0.78 mil
Thermoplastic Polyurethane film	- 6 mil
Removable PS adhesive	- 1.18 mil
Matte silicone release liner	- 3 mil

*\*Thickness values are representative of actual production sample*

## FEATURES

- Automatic self healing property from minor to medium scratches.
- Excellent optical clarity and high gloss.
- Excellent water repellent property (hydrophobic) and durable.
- Repositionable pressure sensitive adhesive, easy for installation on curved surfaces.
- Stain resistance.
- Anti yellowing
- Excellent solvent resistance.
- Resistant to bird dropping.
- Provides protection against rocks, salt, insect and other road debris.

## APPLICATIONS

- Full body wrap
- Hood
- Bumpers
- Rocker panel
- Quarter panels
- Painted side mirrors
- Door handle cavity
- Door edges
- Leading hood edge
- Wheel arches

PPF installation gel is recommended for proper and easy installation. Recommended installation environment temperatures should be 20° Celsius to 32° Celsius.

## AVAILABILITY

Marvelous Paint Protection Film is available at approved distributors. please contact our sales team for roll size, minimum order warranty and other conditions of sale.

## INSTALLATION CARE

- Clean and dust the film on a regular basis, paying special attention to the edges where dirt can built up.
- Use a microfiber cloth on the critical edges of the film.
- Remove any smashed bugs or tree sap or other materials as soon as possible to prevent corrosive effects.
- Avoid use of abrasive like powder and clay-type cleaners and degreasers, or rough sponges and paper towels.
- Don't use a power buffer on your film coat, hand usage only.
- Do not use high-pressure water hoses.
- Don't use a lot of pressure on the film when cleaning.



# The Ultimate Choice For A High-end Appearance



- Adds Elegant Looks and Uplifts Aesthetics
- Excellent Anti-scratch Properties
- Easy To Apply On Curved Surfaces
- Excellent Heat Rejection Properties
- Excellent Stain Resistance
- Good Chemical Resistance



# WHY PPF?

## Key to protect your car paint



Shiny New Look



Better Resale value



Easy Cleaning



Scratch Healing



Invisible Protection



Saves Money



# YOUR CAR'S SUPER SHIELD



Self-Healing



Hydrophobic



Opti-Clear



UV Protected



Stone Chip Resistant

# WHY PPF is Required?

It hurts to see our cars in such conditions

" Prevention Is Always Better Than Cure "



Scratches



Bird Droppings



Tree Sap



Bug Marks

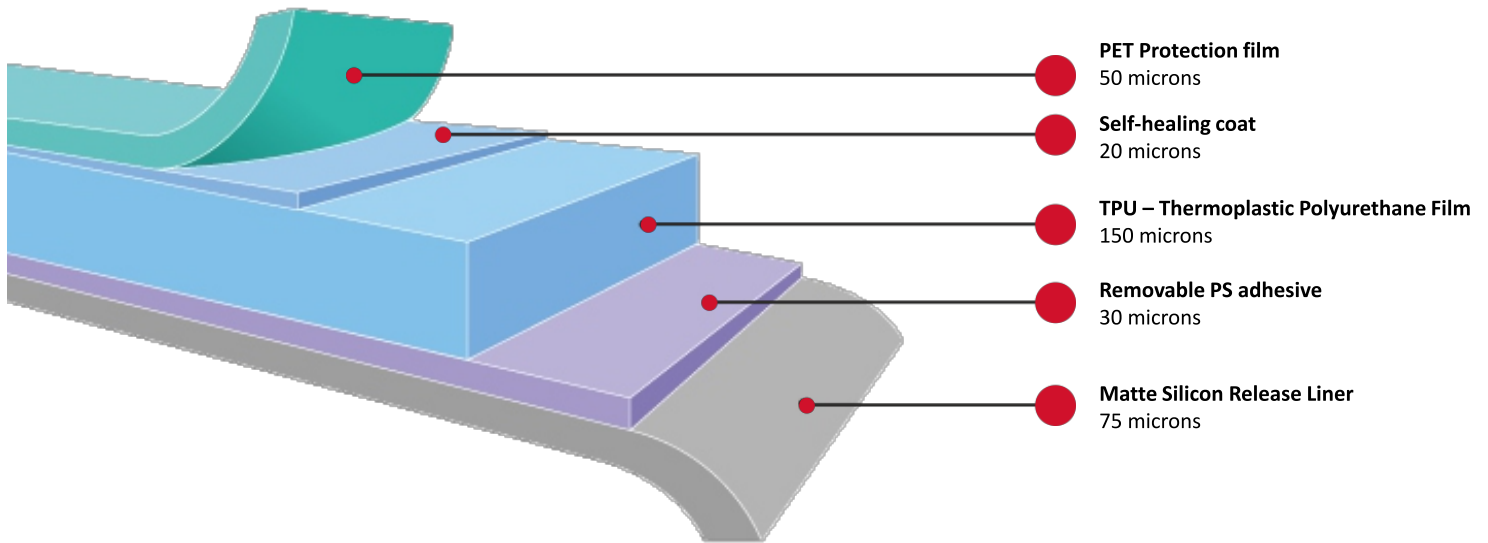


Colour Fading



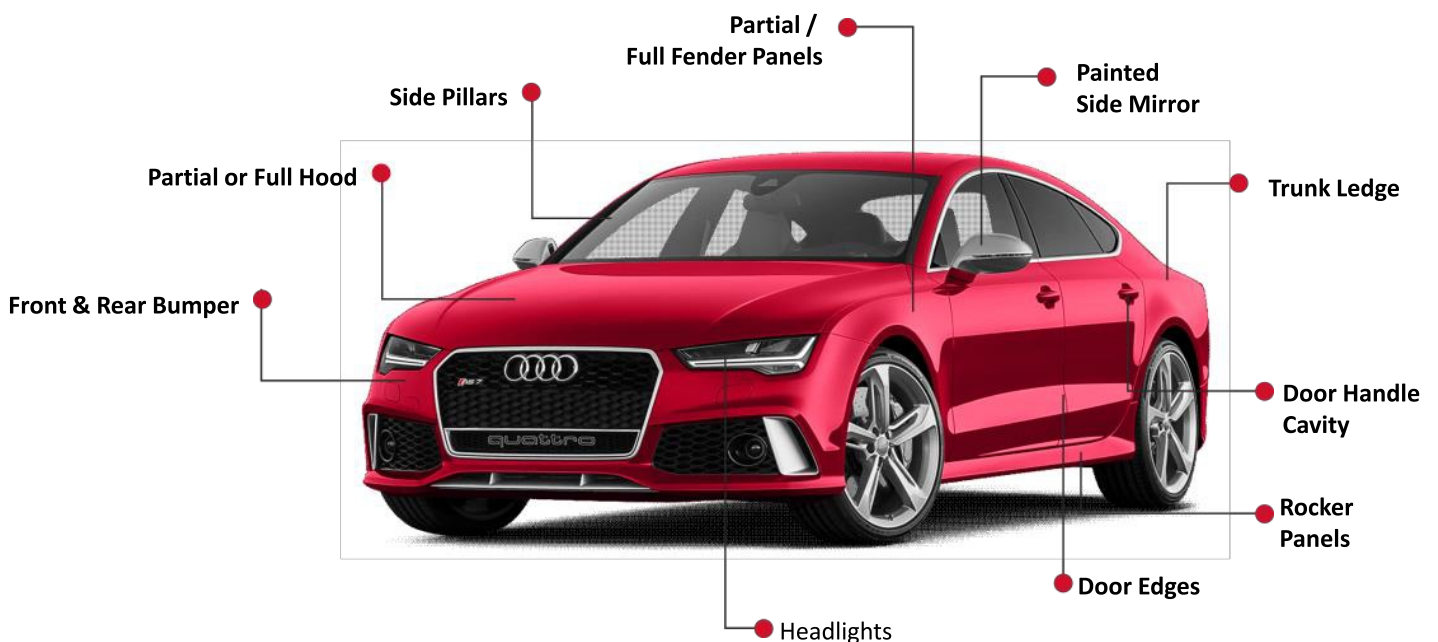
Stone Chips





We offer Glossy PPF with **5 Years Warranty**  
\*Standard T&C apply

# Marvelous PPF Application Areas



## PAINT PROTECTION FILM

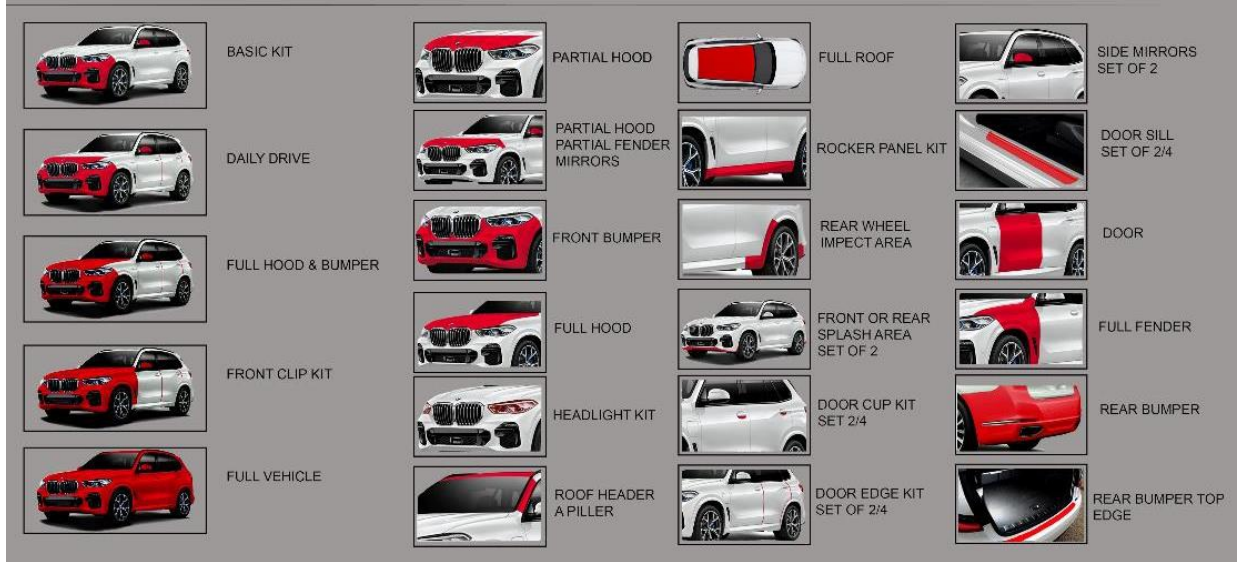
PROTECT YOUR INVESTMENT

SELF HEALING

CHEMICAL RESISTANT

ROCK CHIP PREVENTION

UV PROTECTION



Sr. No.	Properties	Testing Standards	Measurement Unit	Typical Values
<b>Mechanical Properties</b>				
1	Peel strength: 20 min @24°C	FTM 01	kg/in	> 0.8 kg/ inch
2	Peel strength: 72 Hrs @24°C	FTM 01	kg/in	> 1.0 kg/ inch
3	Gloss at 60°	ASTM D-2457	%	> 85%
4	Tensile Strength	ASTM D-882	Mpa	>20
5	Elongation	ASTM D-882	%	>250
<b>Aging Performance</b>				
6	Heat ageing 80° C/ 16 Days	Internal	-	Pass- No Detrimental Effect
7	Water immersion	400 hrs at 40°C	-	Pass- No Detrimental Effect
<b>8 Stain Resistance</b>				
a	Water and soap resistance	Immerse for 30 min	-	Pass- No Detrimental Effect
b	Battery acid	Immerse for 30 min	-	Pass- No Detrimental Effect
c	Diesel	Immerse for 30 min	-	Pass- No Detrimental Effect
d	SAE Motor oil	Immerse for 30 min	-	Pass- No Detrimental Effect
e	Hydraulic oil	Immerse for 30 min	-	Pass- No Detrimental Effect

### BEST TO APPLY AT

Vehicles surface and ambient temperature should be between 20 to 35 deg.c . Application should be done in a dust free area and away from direct sunlight.

Please refer Application Manual given by GPPF for effective application results

### BEST TO STORE AT

The Shelf life of the film is of one year when stored in it's original packaging condition at the temperature ranging from 18 to 26 deg.c and relative Humidity 50 to 60 %

