

PAINT PROTECTION FILM



Paint Protection Film (PPF) is a clear, durable film applied to a vehicle's paint to protect it from stone chips, scratches, and weather damage. With features like self-healing and water resistance, it keeps your car looking newer for longer - without altering its original finish.

CLASSIC 1 PAINT PROTECTION FILM

Classic PPF is a transparent, high-gloss film that defends against stone chips, scratches, and abrasion - all while preserving your vehicle's original paintwork.

FEATURES

- Crystal-clear optical clarity for invisible protection.
- Hydrophobic finish for water beading and easy cleaning.
- Stain & chemical resistance for lasting protection.
- Flexible TPU film for easy installation on curves and contours.
- Up to 5 years warranty.

APPLICATION

- Apply in a dust-free environment, away from direct sunlight.
- Surface and ambient temperatures: 20°C to 30°C.

STORAGE

- Store film rolls in original packaging.
- Temperature: 18°C to 26°C.
- Humidity: 50 - 60% (recommended).
- Shelf Life: 6 months (in unopened original packaging).

PRODUCT CONSTRUCTION

Protection Film (51µm)
Self-healing coating (13µm)
TPU Film (152µm)
PS Adhesive (30µm)
Release Liner (76µm)



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NATIONAL DISTRIBUTION ☎ 086 1100 420
✉ nat.sales@maizey.co.za 🌐 www.maizey.co.za
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PERFORMANCE PROPERTIES

Sr. No.	Properties	Testing Standards	Measurement Unit	Typical Values
Mechanical Properties				
1	Peel Strength: 20min @ 24°C	FTM 01	kg/cm	> 1.52kg/cm
2	Peel Strength: 72 Hrs @ 24°C	FTM 01	kg/cm	> 2.54kg/cm
3	Gloss at 60°	ASTM D-2457	GU	> 80
4	Tensile Strength	ASTM D-882	Mpa	> 10
5	Elongation	ASTM D-882	%	> 150
Aging Performance				
6	Heat Ageing 80°C / 24 Hrs	Internal	-	Pass - No Detrimental Effect
7	Water Immersion 40°C / 24 Hrs	Internal	-	Pass - No Detrimental Effect
Stain Resistance - Drop test for 10 minutes				
8	Water and soap resistance	Internal	-	Pass - No Detrimental Effect
9	Battery acid	Internal	-	Pass - No Detrimental Effect
10	Diesel	Internal	-	Pass - No Detrimental Effect
11	SAE Motor Oil	Internal	-	Pass - No Detrimental Effect
12	Hydraulic Oil	Internal	-	Pass - No Detrimental Effect

CLEARGUARD BLACK PAINT PROTECTION FILM

Clearguard Black PPF is a premium black TPU film designed specifically for aesthetic enhancement and protection. Ideal for automotive passenger vehicles and roof wraps, this film offers all the benefits of PPF with a bold, stealth finish.

FEATURES

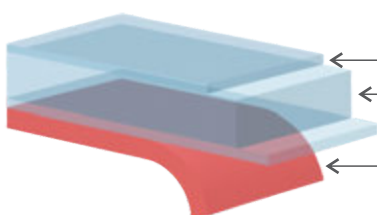
- Premium black TPU film for distinctive style.
- Self-healing topcoat for scratch resistance.
- Smooth, easy-to-clean surface.
- Engineered for automotive exteriors - perfect for roofs wrap applications.
- Up to 5 years warranty.

APPLICATION CONDITIONS

- Apply in a dust-free environment, away from direct sunlight.
- Surface and ambient temperatures: 20°C to 30°C.

STORAGE CONDITIONS

- Store film rolls in original packaging.
- Temperature: 18°C to 26°C.
- Relative humidity: 50 - 60%.



Self-healing, Hydrophobic Topcoat (20µm)

TPU - Thermoplastic Polyurethane Film (152µm)

Pressure Sensitive Mounting Adhesive (30µm)

Removable Matte Silicon Release Liner (76µm)

