

TUFF PPF

AUTOMOTIVE PROTECTION

BEYOND EXPECTATION



About

TUFF PPF is a prominent brand in the automotive industry, specializing in the manufacturing and distribution of Paint Protection Film (PPF). With a commitment to excellence and innovation, TUFF PPF has established itself as a trusted name, providing high-quality protection solutions for vehicles worldwide.

At TUFF PPF, innovation is at the heart of everything we do. Our dedicated research and development team continuously strives to enhance our products, employing the latest technological advancements. With state-of-the-art manufacturing processes and materials, TUFF PPF delivers PPF solutions that meet the evolving needs of automotive enthusiasts and professionals.

TUFF PPF is a leading brand that combines advanced technology, innovation, and a commitment to excellence to deliver outstanding Paint Protection Film solutions. With its unbeatable protection, cutting-edge products, and strong industry reputation, TUFF PPF continues to set the benchmark for vehicle protection in the automotive market. Choose TUFF PPF for unmatched quality, reliability, and peace of mind when it comes to safeguarding your vehicle's appearance and value.



TUFF PRO-R

Self healing

No additional heat is required to speed up the self healing to offer better demonstration of the self healing feature of the TUFF PPF PRO-R. Micro scratches go away within seconds, making powerful performance presentations possible.

Hydrophobic

We have improved the coating further to offer even more stain resistance. The new coating puts TUFF PPF PRO-R in the very top league of the PPF industry.

Flexible adhesive

An extremely flexible film needs a very flexible adhesive in order to avoid any sort of adhesive marks and to offer an extremely good repositionability. With the improved adhesive, installation will be faster and easier.



Model	Material	Effect	Warranty	Warranty Coverage	Thickness	Top Coat thickness	Base film thickness	Adhesive Thickness	Liner Thickness
PRO-R	TPU	Semi Gloss	5 Year	Yellowing Cracking Delaminating	7.5 mil	15 μm	150 $\mu\text{m}\pm 8$	23 μm	85 μm
Ultimate Strength	Shrinkage	Elongation at Break	Max Temperature	Chemical Resistance	Aging Tests	Anti-fouling	Adhesion	Impact Test	Visual Light Transmission
>15 MPa ASTM D882	<0.1%	>200%	110 \geq 5 min	No Detrimental Effect	Pass	No Detrimental Effect	>1.5 kgf/25mm (After 24 hrs)	Pass	0.91

TUFF TITAN



Premium technology with Super Clear gloss effect

TUFF PPF TITAN is the choice for cars that are really put to the trial. With increased thickness the TITAN offers extreme protection against road debris. Especially developed for race tracks and experience driving centres. The TUFF PPF TITAN offers an unmatched level of protection. The special Super clear coat makes the surface gloss perfect, while cleaning is easy, as the film has water repellent properties. Self healing works the same way as other TUFF PPF Series.

Model	Material	Effect	Warranty	Warranty Coverage	Thickness	Top Coat thickness	Base film thickness	Adhesive Thickness	Liner Thickness
TITAN	TPU	Super Clear Gloss	7 Year	Yellowing Cracking Delaminating	8 mil	12.5 μm	150 $\mu\text{m}\pm 8$	37.5 μm	85 μm
Ultimate Strength	Shrinkage	Elongation at Break	Max Temperature	Chemical Resistance	Aging Tests	Anti-fouling	Adhesion	Impact Test	Visual Light Transmission
>15 MPa ASTM D882	<0.1%	>200%	110 \geq 5 min	No Detrimental Effect	Pass	No Detrimental Effect	>1.5 kgf/25mm (After 24 hrs)	Pass	0.91

TUFF SPECTRE

Extra tough 10 mil PPF for the ULTIMATE protection

TUFF PPF SPECTRE, Paint Protection Film has a special coating with a satin surface that provides unique look for your car. The special ULTRA clear coat results in the film being highly resistant to contaminants which would cause the yellowing of the film and damage the surface. The film protects the body of the car from minor stone chips, surface scratches, damage caused by car wash brushes and other similar impacts.



Model	Material	Effect	Warranty	Warranty Coverage	Thickness	Top Coat thickness	Base film thickness	Adhesive Thickness	Liner Thickness
SPECTRE	TPU	Ultra Clear Gloss	10 Year	Yellowing Cracking Delaminating	10 mil	14.5 μm	200 $\mu\text{m}\pm 8$	37.5 μm	85 μm
Ultimate Strength	Shrinkage	Elongation at Break	Max Temperature	Chemical Resistance	Aging Tests	Anti-fouling	Adhesion	Impact Test	Visual Light Transmission
>15 MPa ASTM D882	<0.1%	>200%	110 \geq 5 min	No Detrimental Effect	Pass	No Detrimental Effect	>1.5 kgf/25mm (After 24 hrs)	Pass	0.91

TUFF PRISM

Colored Paint Protection Film



The high end of car wrapping is here. The professional colored TPU films are the perfect gloss solution for car wrapping with hydrophobic and self healing features. Amazing effect, like the car had a full glass coverage. Complete wraps with PPF require expert skills and lots of time, so they have to be priced accordingly.

Compared to regular PVC based car wrapping films, TUFF PPF PRISM Wrap has better gloss than the actual factory paintwork, is self healing, meaning the micro scratches disappear from the surface and is hydrophobic, resulting in easier cleaning. And for durability,

TUFF PPF PRISM has an expected lifetime of about 10 year, double the time than regular car wrapping. TUFF PPF PRISM Wrap is available in variety of color patterns.

	Carbon Grey Gloss 2023-COR-DGRY.G		Carbon Grey 2023-COR-DGRY.S		Light Grey Gloss 2023-COR-LGRY.G		Reflex Grey 2023-COR-LGRY.S		Satin Purple gloss 2023-COR-PUR.G
	Piano Black Gloss 2023-COR-BLK.G		Matte Black 2023-COR-BLK.G		Candy White 2023-COR-WHT.G		Satin Orange 2023-COR-ORG.S		Satin Orange gloss 2023-COR-ORG.G
	Sky Blue gloss TUFF2023-111B		Rising Blue TUFF2023-112S		Crimson Red Gloss 2023-COR-CRED.G		Satin Crimson Red 2023-COR-CRED.S		Dark RED gloss 2023-COR-DRED.G

TUFF MATTE



Enhanced Appearance

TUFF Matte finishes are known for their unique and stylish appearance. Matte PPF adds a sleek and modern look to your vehicle, giving it a distinctive and high-end aesthetic. It can transform the appearance of your car by providing a non-reflective, satin-like finish that is different from the glossy look of traditional PPF.

Easy Maintenance

Matte PPF requires less maintenance compared to glossy finishes. Matte surfaces are less prone to showing water spots, fingerprints, and dust, making them easier to clean. Regular washing with mild soap and water is typically sufficient to keep the film looking its best.

Model	Material	Effect	Warranty	Warranty Coverage	Thickness	Top Coat thickness	Base film thickness	Adhesive Thickness	Liner Thickness
MATTE	TPU	Matte/satin	10 Year	Yellowing Cracking Delaminating	10 mil	14.5 μm	200 $\mu\text{m}\pm 8$	37.5 μm	85 μm
Ultimate Strength	Shrinkage	Elongation at Break	Max Temperature	Chemical Resistance	Aging Tests	Anti-fouling	Adhesion	Impact Test	Visual Light Transmission
>15 MPa ASTM D882	<0.1%	>200%	110 \geq 5 min	No Detrimental Effect	Pass	No Detrimental Effect	>1.5 kgf/25mm (After 24 hrs)	Pass	0.91

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Product Comparison

Finish	Semi Gloss	Super Clear Gloss	Ultra Clear Gloss	Ultra Clear Gloss	Matte/Satin
Material	TPU	TPU	TPU	TPU	TPU
Thickness	7.5 mil	8 mil	10 mil	10 mil	10 mil
Warranty	5 Year	7 Year	10 Year	10 Year	10 Year
Properties	Self-healing Hydrophobic Non-yellowing Stain Resistant	Self-healing Hydrophobic Non-yellowing Stain Resistant	Instant Self-healing Super Hydrophobic Non-yellowing Stain Resistant UV protection	Instant Self-healing Super Hydrophobic Non-yellowing Stain Resistant UV protection	Instant Self-healing Super Hydrophobic Non-yellowing Stain Resistant UV protection