Shanghai Techlon Co., Ltd.

TPU PAINT PROTECTION FILM



·SELF-HEALING ·HYDROPHOBIC ·ANTI-SCRATCH
·ANTI-YELLOWING ·HIGH GLOSS

Invisible Armor. Lasting Value.

MANIFESTO

PROTECT WHAT MATTERS

Every day, your customers' vehicles face stone chips, road debris, tree sap, bird droppings and harsh UV — damage that original paint can never be restored from.

We are a factory-direct manufacturer of aliphatic TPU paint protection film. Every roll is produced in a cleanroom environment with strict quality control, engineered to deliver years of invisible protection — without changing the look of the car.

From distributors and wholesalers to professional install shops and brands: we supply the films,the private-label programs and the technical support you need to grow your business.

Invisible Protection. Lasting Value.

COMPANY PROFILE

ABOUT SHANGHAI TECHLON

Shanghai Techlon Co., Ltd. is a specialized manufacturer of high-performance automotive films, integrating R&D, production and sales in one place. We serve distributors, wholesalers and professional install shops across global markets — with products that meet EU regulatory standards and pricing that reflects our factory-direct advantage.

Our core line is aliphatic TPU paint protection film: 6.5–10 mil thickness, ΔE<0.5 anti-yellowing performance over 10 years, heat-activated self-healing, hydrophobic stain resistance and high gloss. We don't just ship rolls — we offer flexible MOQs, custom branding and responsive support, so your success is our success.

- **FACTORY-DIRECT**
- **ALIPHATIC TPU**
- **OEM/ODM READY**

PRODUCTION CAPABILITY

CLEANROOM MANUFACTURING

Dust-Free Production. Strict QC. Stable Performance.

Every Techlon roll is produced in a cleanroom environment with internationally advanced coating, laminating and slitting equipment. From base film to finished roll, each batch passes strict in-house quality control — so you receive film with consistent thickness, clarity and adhesion, roll after roll.



Dust-Free Cleanroom



Precision Coating & Laminating Lines



Precise Slitting & Rewinding



In-House QC at Every Stage

CERTIFICATIONS

QUALITY YOU CAN VERIFY

Certified Materials. Compliant Products

Techlon products are manufactured and tested to meet international regulatory requirements, giving your customers confidence in every installation.



Products comply with EU regulatory standards

WHY PPF

WHY PAINT PROTECTION FILM?

The Only "Repair" That Never Needs to Happen

Global paint protection film market: USD 1.09 billion (2025) → USD 1.55 billion (2030), CAGR 7.2%— Source: MarketsandMarkets, Paint Protection Films Market Report 2025–2030



I.PHYSICAL DEFENSE

II.SELF-HEALING

III.CHEMICAL ISOLATION

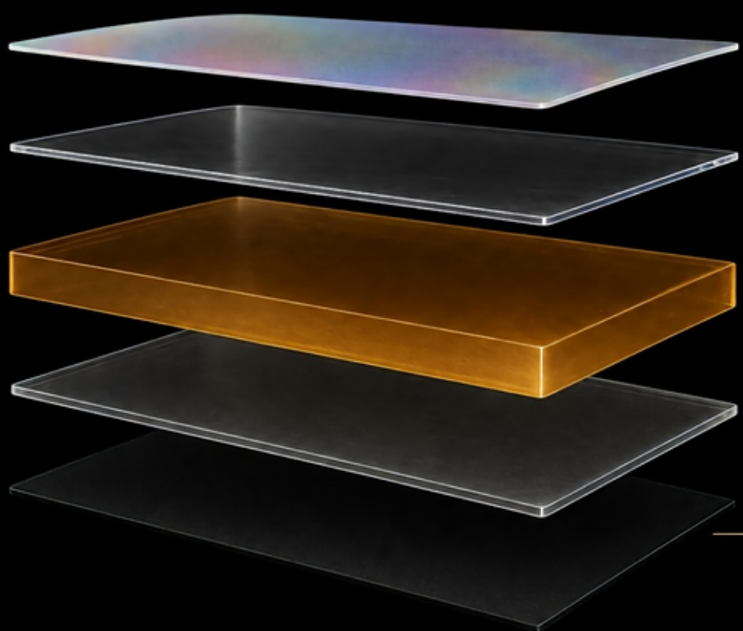
IV.GLOSS BOOST

V.VALUE RETENTION

VI.ADAS FRIENDLY

5-LAYER ARCHITECTURE

Every Layer Has a Job. Together They Define Quality.



① PROTECTION

② HEALING

③ DURABILITY

④ ADHESION

⑤ LINER

① NANO HYDROPHOBIC COATING
Lotus-effect water beading · Bird dropping & resin resistant · Thermo self-healing

② SELF-HEALING LAYER
Micro-scratches heal under sunlight · hot water · heat gun

③ ALIPHATIC TPU SUBSTRATE — CORE
6.5–10 mil · Rock chip resistance · Superior elongation & tensile strength

④ PRESSURE-SENSITIVE ADHESIVE
Premium imported adhesive · Clean removal · Zero paint damage

⑤ RELEASE LINER
Protects adhesive before installation · Removed after application

ALIPHATIC TPU — THE ONLY SUBSTRATE THAT MATTERS

Why Material Selection Decides Performance

MATERIAL PERFORMANCE COMPARISON

Performance	Aliphatic TPU	Aromatic TPU	TPH	PVC
Self-Healing	✓ Thermal recovery	Marginal	None / minimal	None
Anti-Yellowing	5–10 years (Excellent)	2–3 years (Poor)	1–2 years	6 months, cracks
Service Life	5–10 years	2–3 years	1–2 years	~1 year

THREE TPU SUBSTRATE SYSTEMS

POLYESTER TPU — Rock Chip Defense
Superior impact resistance — engineered for northern dust-belt highways and high-speed driving conditions

POLYETHER TPU — Hydrolysis Resistant
Stays flexible in cold temperatures — ideal for southern coastal and high-humidity environments

PCL-MODIFIED TPU — Top-Tier Performance
Combines impact resistance + hydrolysis resistance — the pinnacle formulation

Techlon PPF uses premium aliphatic TPU — never aromatic, never a shortcut.

PROTECT YOUR BELOVED CAR

NETSCH ALL-AROUND CAR PROTECTION



- Scratch-Proof
- Self-Healing
- Paint Enhancement
- Anti-Yellowing
- High Permeation Resistance
- Hydrophobic Self-Cleaning
- Long-Lasting Anti-Dirt
- Strong Corrosion Resistance

PAINT PROTECTION FILM

NETSCH PAINT PROTECTION FILM PROVIDES YOU WITH ALL-ROUND PROTECTION FOR YOUR CAR.
IT'S THE FIRST INVISIBLE ARMOR FOR YOUNG PEOPLE!

NANO-COATING

PATENT-GRADE NANO COATING

TRIPLE-CORE PROTECTION SYSTEM

NANO-COATING

- Scratch Resistance! Tough TPU base + patent nano-coating delivers impact protection like an invisible armor for your paint.
- Corrosion Resistance! Effectively combats coastal humidity and winter road salt corrosion challenges.
- Anti-Aging! Suppresses UV-induced and environmental yellowing for long-lasting durable protection.



BLACK TECHNOLOGY

HOT REPAIR BLACK TECHNOLOGY

SELF-HEALING PERFORMANCE UPGRADED

HOT REPAIR
BLACK TECHNOLOGY

- Everyday micro-scratches (as fine as hair strands) automatically heal with warm water or sunlight — no professional treatment needed.
- Effortlessly handles branch scratches, key marks, car-wash swirl marks, and most common daily damage.
- Rigorously tested for consistent self-healing performance throughout the warranty period — zero extra repair costs for users.





PAINT PROTECTION FILM

WEATHERABILITY TESTING BASES

GLOBAL WEATHERABILITY TESTING BASES

Shiliu Optics has spent years establishing 8 major testing bases worldwide, conducting optical, mechanical, and chemical performance tests on automotive films to ensure product weatherability stability. The bases simulate 375 complex environments, and have completed a cumulative total of 1,000+ tests totaling 80,000 hours. This is one of the guarantees that Shiliu Automotive Film remains a leader in the industry.



Extreme Cold Zone
Northeast China

Extreme Heat Zone / Strong UV & Arid Zone
Southeast Asia / Northwest China

High Rainfall Zone
South China

Heavy Industrial Pollution Zone
North China



Extreme Cold Zone



Extreme Heat Zone



Strong UV Zone



High Rainfall Zone



Heavy Pollution Zone

TECHLON PPF

Five Films. Every Finish. One Standard of Quality.

PARAMETER	TYPICAL VALUE	NOTES
Total Thickness	6.5 / 7.5 / 8 / 9 / 10 mil (±5%)	*Customizable*
Base Material	Aliphatic TPU	*Premium aliphatic-grade*
Finish Options	Gloss / Matte	*High-gloss or satin matte*
Gloss Level	Gloss ≥140 GU / Matte ≤20 GU	⏳ *Pending confirmation*
180° Peel Strength	≥15 N / 25mm	⏳ *Pending confirmation*
Tensile Strength	≥15 MPa	⏳ *Pending confirmation*
Elongation at Break	≥200%	⏳ *Pending confirmation*
Scratch Resistance	PASS	⏳ *Pending confirmation*
Stone Chip Resistance	PASS	⏳ *Pending confirmation*
Solvent Resistance	PASS	⏳ *Pending confirmation*
Anti-Yellowing	**ΔE < 0.5 (10 years)**	*Per official product data*
Warranty	By product grade — contact us	*Grade-specific*

Testing Standard: QC/T 1171-2022 — China Automotive PPF Industry Standard

Industry Compliant

≥200%
Elongation at Break

≥15 MPa
Tensile Strength

ΔE<0.5
Anti-Yellowing

Product parameters are factory-tested values; actual values may vary slightly due to production batch differences. Physical inspection prevails.

TECHLON PPF — Performance You Can Measure



「Crystal」 *Glossy* CLEAR TPU PPF

Engineered for those who demand perfection — our Crystal Clear TPU PPF wraps your vehicle in an invisible armor. Self-healing technology meets optical clarity, ensuring your car's finish remains pristine against chips, scratches, and environmental hazards.

Drive with confidence. Protect without compromise.

Product Thickness	Material	Finish Effect	Gloss Level	180° Peel Strength	Tensile Strength
7.5 mil ± 5%	TPU	Gloss	≥ 140	≥ 17N/25mm	≥ 11MPa

Elongation at Break	Scratch Resistance	Stone Chip Resistance	Solvent Resistance	Warranty Period	Coverage
≥ 260%	Pass	Pass	Pass	5 Years	Water spots · UV damage · Delamination · Color cracking · Mirror distortion

Techlon SHIELDS YOUR RIDE ⚡ CRYSTAL CLEAR FOREVER!

PAINT PROTECTION FILM

** Self-healing · UV Resistant · Hydrophobic Coating · Anti-yellowing*

** Product parameters are based on actual laboratory test results. Values may vary slightly due to manufacturing processes and regions.*

** Tested in accordance with GB/T 171-2022 standards. Parameters are reference values; normal product performance is not affected.*

CLOSSY SEIRES

PAINT PROTECTION FILM

Thickness: 7.5±0.5mil

Warranty: 5 years



Anti-Scratch | Self-Healing | Paint Enhancement | UV Resistance | Strong Penetration | Hydrophobic | Anti-Stain | Anti-Corrosion



「Gloss King」

Glossy

GLOSS TPU PPF

Born for brilliance — our Gloss TPU PPF delivers a mirror-like finish that amplifies your car's original color depth and shine.

High-elasticity TPU base material shields against stone chips, acid rain, and everyday abrasions.

Preserve the luster. Guard the passion. Every drive, a statement.

Product Thickness	Material	Finish	Gloss Level	180° Peel Strength	Tensile Strength
7.5 mil ± 5%	TPU	Gloss	≥ 140	≥ 17N/25mm	≥ 21MPa

Elongation at Break	Scratch Resistance	Stone Chip Resistance	Solvent Resistance	Warranty	Coverage
≥ 270%	Pass	Pass	Pass	6 Years	Water spots · Bird droppings · Tree resin · Minor scratches

Techlon SHIELDS YOUR RIDE ⚡ GLOSS NEVER FADES!

PAINT PROTECTION FILM

** Product parameters are subject to actual test results. Values may vary slightly by region.*

** Tested per GB/T 171-2022. Parameters are reference values only.*

CLOSSY SEIRES

PAINT PROTECTION FILM

Thickness: 7.5±0.5mil

Warranty: 6 years



Anti-Scratch | Self-Healing | Paint Enhancement | UV Resistance | Strong Penetration | Hydrophobic | Anti-Stain | Anti-Corrosion



「Shadow Elite」

Matte

MATT TPU PPF

Crafted for those who choose presence over flash — our Matt TPU PPF wraps your vehicle in a deep, velvety matte armor.
Premium nano-matte coating technology fuses self-healing performance with extreme weather resistance.
Let every road become your runway. Understated. Unstoppable. Unmistakably yours.

Product Thickness	Material	Finish	Gloss Level	180° Peel Strength	Tensile Strength
7.5 mil ± 5%	TPU	Matte	≤20	≥ 20N/25mm	≥ 19MPa

Elongation at Break	Scratch Resistance	Stone Chip Resistance	Solvent Resistance	Warranty Period	Coverage
≥ 270%	Pass	Pass	Pass	8 Years	Water spots · Rain stains · Delamination · Color cracking · Mirror distortion

Techlon SHIELDS YOUR RIDE ⚡ MATTE NEVER COMPROMISES!

PAINT PROTECTION FILM

** Product parameters are based on actual laboratory test results. Values may vary slightly due to manufacturing processes and regions. Please refer to actual products.*

** Tested in accordance with GB/T 171-2023 standards. Parameters are reference values; normal product performance is not affected.*

MATT SEIRES

PAINT PROTECTION FILM

Thickness: 7.5±0.5mil

Warranty: 8 years



Anti-Scratch | Self-Healing | Paint Enhancement | UV Resistance | Strong Penetration | Hydrophobic | Anti-Stain | Anti-Corrosion



「Vivid Pro」

Colorful

COLOR TPU PPF

Made for those who wear their color with pride — COLOR TPU PPF locks in your vehicle's original hue with unrivaled vibrancy and depth.
8.5mil high-elasticity TPU base shields against stone chips, acid rain, and UV fading while self-healing keeps the finish flawless.
Your color. Your identity. Protected forever.

Product Thickness	Material	Finish	Gloss Level	180° Peel Strength	Tensile Strength
8.5 mil ± 5%	TPU	Gloss	≥ 140	≥ 18N/25mm	≥ 22MPa

Elongation at Break	Scratch Resistance	Stone Chip Resistance	Solvent Resistance	Warranty Period	Coverage
≥ 290%	Pass	Pass	Pass	8 Years	Water spots · Rain stains · Delamination · Color cracking · Mirror distortion

Techlon SHIELDS YOUR RIDE ⚡ YOUR COLOR NEVER FADES!

PAINT PROTECTION FILM

** Product parameters are based on actual laboratory test results. Values may vary slightly due to manufacturing processes and regions. Please refer to actual products.*
** Tested in accordance with GB/T 171-2022 standards. Parameters are reference values; normal product performance is not affected.*

CLOSSY SEIRES

PAINT PROTECTION FILM

Thickness: 8.5±0.5mil

Warranty: 8 years



Anti-Scratch | Self-Healing | Paint Enhancement | UV Resistance | Strong Penetration | Hydrophobic | Anti-Stain | Anti-Corrosion



「Navigator Elite」

Glossy

GLOSS TPU PPF

Built for those who lead — GLOSS TPU PPF at 9.5mil redefines the standard of paint protection with unmatched thickness and resilience. Industrial-grade TPU craftsmanship resists stone chips, acid rain, and yellowing while maintaining a mirror-like gloss for a decade. Every surface a statement. Every mile, protected. Ten years of unwavering shine.

Product Thickness	Material	Finish	Gloss Level	180° Peel Strength	Tensile Strength
9.5 mil ± 5%	TPU	Gloss	≥ 140	≥ 21N/25mm	≥ 28MPa

Elongation at Break	Scratch Resistance	Stone Chip Resistance	Solvent Resistance	Warranty Period	Coverage
≥ 300%	Pass	Pass	Pass	10 Years	Water spots · Rain stains · Delamination · Color cracking · Mirror distortion

Techlon SHIELDS YOUR RIDE ⚡ GLOSS LASTS A DECADE!

PAINT PROTECTION FILM

** Product parameters are based on actual laboratory test results. Values may vary slightly due to manufacturing processes and regions. Please refer to actual products.*

** Tested in accordance with GB/T 171-2022 standards. Parameters are reference values; normal product performance is not affected.*

CLOSSY SEIRES

PAINT PROTECTION FILM

Thickness: 9.5±0.5mil

Warranty:10 years



Anti-Scratch | Self-Healing | Paint Enhancement | UV Resistance | Strong Penetration | Hydrophobic | Anti-Stain | Anti-Corrosion



「 Shadow Elite 」

Matte

MATT TPU PPF

Crafted for those who choose presence over flash — our Matt TPU PPF wraps your vehicle in a deep, velvety matte armor.
Premium nano-matte coating technology fuses self-healing performance with extreme weather resistance.
Let every road become your runway. Understated. Unstoppable. Unmistakably yours.

Product Thickness	Material	Finish	Gloss Level	180° Peel Strength	Tensile Strength
9.5 mil ± 5%	TPU	Matte	≤20	≥ 21N/25mm	≥ 28Mpa

Elongation at Break	Scratch Resistance	Stone Chip Resistance	Solvent Resistance	Warranty Period	Coverage
≥ 300%	Pass	Pass	Pass	Years	Water spots · Rain stains · Delamination · Color cracking · Mirror distortion

Techlon SHIELDS YOUR RIDE ⚡ MATTE NEVER COMPROMISES!

PAINT PROTECTION FILM

** Product parameters are based on actual laboratory test results. Values may vary slightly due to manufacturing processes and regions. Please refer to actual products.*
** Tested in accordance with GB/T 171-2023 standards. Parameters are reference values; normal product performance is not affected.*

MATT SEIRES

PAINT PROTECTION FILM

Thickness: 9.5±0.5mil

Warranty: 10 years



Anti-Scratch | Self-Healing | Paint Enhancement | UV Resistance | Strong Penetration | Hydrophobic | Anti-Stain | Anti-Corrosion



Authentic Guarantee
TRUSTED

QUALITY COMMITMENT

NETSCH QUALITY COMMITMENT

For all Netsch authorized partner stores, we provide manufacturrer warranty. Within the warranty period, any non-human-caused defects including water spots, delamination, adhesive failure, cracking, separation, or surface distortion will be replaced free of charge by Netsch.



Dedicated Service | Quality Guaranteed

FAQ

Frequently Asked Questions

Everything you need to know before placing your order

Payment Terms

T/T, L/C, Western Union, PayPal accepted.
30% deposit + 70% before shipment.
L/C at sight for orders over $50,000.

Shipping Methods

Sea freight (FCL/LCL), Air, Express (DHL/FedEx/UPS).
FOB, CIF, EXW terms available.
Door-to-door delivery supported.

Production Lead Time

Stock items: 3–5 business days.
Custom orders: 10–15 business days.
Rush orders available upon request.

Sampling Process

Free samples available (freight collect).
Custom sample: 5–7 business days.
Sample fee refunded on bulk orders.

Minimum Order Qty

Standard rolls: MOQ **60 rolls**
Custom size/color: MOQ **100 rolls**
Mixed SKU orders accepted.

Quality & Warranty

ISO 9001 certified factory.
5–10 year product warranty.
SGS / RoHS / REACH compliant.

CUSTOM SIZE	Any width 0.1m–1.82m, any length available
OEM / ODM	Private label, custom packaging & brand logo printing
DOCUMENTS	CO, Form E, MSDS, Test Report, Packing List provided

Ready to Order?
Contact our trade team

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MAINTENANCE INSTRUCTIONS

Paint Protection Film Care Instructions

- To ensure proper adhesion of the paint protection film, do not wash the vehicle for one week after installation. Use a soft sponge or dedicated car wash towel with professional car wash solution. Avoid strong alkaline or acidic cleaners. When using a pressure washer, avoid prolonged spraying at the film edges.
- After installation, minor water bubbles may appear between the film and paint surface — this is a natural part of the drying process and will typically disappear within one month when exposed to sunlight.
- After installation, avoid waxing, glazing, or ceramic coating products containing petroleum-based ingredients on the film surface. If necessary, consult your installer for guidance.
- Avoid parking under direct sun exposure, at construction sites, under trees, or near air conditioning vents. If contaminants such as grease, tar, bird droppings, or cement are found on the film, have them removed at a professional installer as soon as possible.
- If the film encounters tar, paint, cement, bird droppings, or air-conditioning residue during use, these can be removed using clay bar, polish, or ultra-fine abrasive products.

SPECIAL NOTICE:

1. Do not use acetone or strong acid solutions to clean the film.
2. Do not lift film edges with fingernails or sharp objects to prevent contamination.
3. If bubbles appear after installation, return to the installer promptly — do not attempt to fix them yourself.
4. Do not use adhesive tape or sticky materials directly on the film surface.

Damage caused by human error or misuse is NOT covered under warranty.

Invisible Armor. Lasting Value.



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