TECHLON

Auto Paint Protection Film

Full Series Aliphatic TPU PPF | Clear / Matte / Gloss / Color

Self-Healing • Long Anti-Yellowing • 6–10 Years Warranty









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techlon
SHANGHAI TECHLON CO., LTD.

ABOUT US

High-Performance Automotive Film Manufacturer

Shanghai Techlon Co., Ltd. is a professional manufacturer specializing in R&D, production and global sales of high-performance automotive and architectural films.
Our product portfolio includes TPU Paint Protection Film (TPU PPF), Auto Window Tint Film, PVC Color Wrap Film, and Architectural Film.
With advanced production lines, strict quality control and customer-oriented service, we deliver premium film solutions to business partners worldwide.



FACTORY DIRECT SUPPLY
Source factory with stable capacity and competitive price.

STRICT QUALITY CONTROL
Complete quality control system ensures consistent performance and reliability.

GLOBAL BUSINESS PARTNER
Serving clients in over 100 countries and regions worldwide.

OEM/ODM SOLUTIONS
Custom branding, packaging, and product solutions to grow your business.

PROFESSIONAL SERVICE
One-stop service with fast response, technical support and after-sales care.

FACTORY STRENGTH



IN-HOUSE TPU FILM PRODUCTION LINE
Advanced equipment ensures stable quality and mass supply.



DUST-FREE PRODUCTION WORKSHOP
Clean environment and standardized process for superior product quality.



WEATHERING & AGING LABORATORY
Professional testing ensures long-term durability and performance.



COMPLETE QUALITY CONTROL SYSTEM
From raw materials to finished goods, every step is strictly inspected.

SERVING GLOBAL BUSINESS PARTNERS
- Import Wholesalers
- Auto Film Installation Chains
- Car Dealership Groups
- 4S Groups
- Overseas Auto Parts Distributors

CUSTOMIZATION & VALUE-ADDED SERVICES
- OEM/ODM Solutions
- Jumbo Roll Slitting
- Custom Packaging
- Private Label Branding
- Free Sample Support

ONE-STOP SUPPLY SOLUTION
- Installation Tools & Accessories
- Cutting Machines
- Training & Technical Support
- Marketing Materials
- After-Sales Service



FINISHED GOODS WAREHOUSE
Large inventory for fast and reliable delivery.



RAW MATERIAL WAREHOUSE
High-quality raw materials ensure consistent performance.



FAST & SAFE DELIVERY
Efficient logistics system to guarantee on-time delivery.



PROFESSIONAL PACKAGING
Secure and customized packaging to protect your goods.

10+	50+	100+	10000+ m²
YEARS OF EXPERIENCE	ADVANCED EQUIPMENT	COUNTRIES & REGIONS	MODERN FACTORY AREA

AUTO PAINT PROTECTION FILM (PPF)

HIGH-END PAINT PROTECTION MATERIAL – TPU EXPLAINED

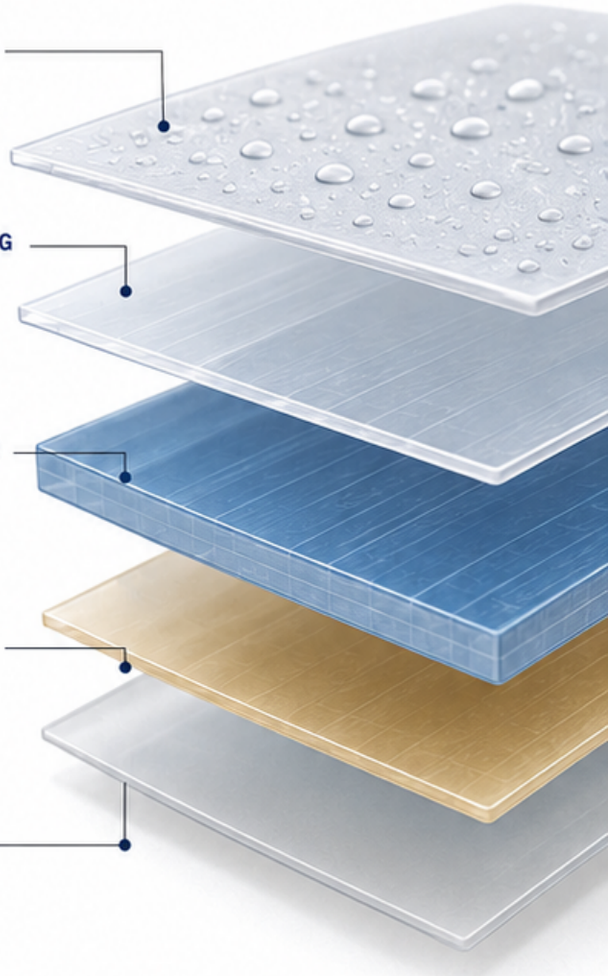
PPF is a high-performance protective film applied to automotive paint surfaces to guard against stone chips, scratches, UV rays, chemical stains, and environmental corrosion.

- Ultimate Protection
- UV & Weather Resistance
- Self-Healing Technology
- Hydrophobic & Easy-Clean
- Long-Lasting Durability

PPF CORE DEFINITION

- ✓ Advanced TPU material for high-end automotive protection
- ✓ Multi-layer functional structure for comprehensive performance
- ✓ Engineered for durability, aesthetics, and long-term reliability

FIVE-LAYER STANDARD STRUCTURE



1. **NANO HYDROPHOBIC TOP COATING**
   Hydrophobic, anti-fouling, and stain-resistant for easy cleaning.
2. **THERMAL SELF-HEALING LAYER**
   Automatically repairs fine scratches with heat activation.
3. **TPU SUBSTRATE LAYER**
   Core layer providing impact resistance, durability, and high tensile strength.
4. **PRESSURE-SENSITIVE ADHESIVE**
   Low initial tack, strong adhesion, no residue upon removal.
5. **PET RELEASE LINER**
   Protects the adhesive layer before installation for easy handling.

TPU TWO MAJOR CATEGORIES

ALIPHATIC TPU (PREMIUM GRADE)

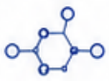
Mainstream High-End Choice – Long-Lasting & Anti-Yellowing

- ✓ No benzene ring structure
- ✓ Excellent UV resistance
- ✓ 5–10 years anti-yellowing performance
- ✓ Ideal for high-end markets and extreme climates

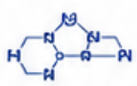
THREE COMMON MODIFIED BASE MATERIALS



POLYESTER TPU
- High strength & rigidity
- Excellent weatherability
- Suitable for hot regions



POLYETHER TPU
- Hydrolysis resistant
- Excellent low-temp performance
- Ideal for cold & humid areas

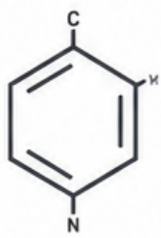


PCL MODIFIED TPU
- Excellent flexibility
- Strong impact resistance
- Ideal for extreme environments

AROMATIC TPU (NOT RECOMMENDED)

Low-Cost Alternative – Not for Premium Protection

- ⊗ Contains benzene ring structure
- ⊗ Poor UV resistance
- ⊗ Prone to yellowing and aging
- ⊗ Only 2–3 years lifespan
- ⊗ Suitable for low-end and short-term use only





Yellowing after short-term use

LONG-LASTING DURABILITY
Engineered for 5–10 years of high-performance protection.

ADAPT TO ALL CLIMATES
Reliable performance in extreme heat, cold, UV, and humidity.

PRECISION MANUFACTURING
Strict quality control ensures consistent thickness and performance.

GLOBAL COMPLIANCE
Compliant with international standards and chemical safety regulations.

OEM/ODM SUPPORT
Custom solutions for branding, packaging, and product specifications.

TECHLON PERFORMANCE FILMS

Factory-Direct Supply | Stable Quality Assurance | Global Shipping Support

Your Trusted Partner for High-Performance Automotive Films

MATERIAL COMPARISON

Why Aliphatic TPU is the Ultimate Choice for PPF

PROPERTY	ALIPHATIC TPU (PPF Premium)	AROMATIC TPU (General)	TPH (Polyester-Based)	PVC (Polyvinyl Chloride)
Self-Healing Capability	★★★★★ Excellent (Heat Activated)	★★★☆☆ Good (Limited)	★☆☆☆☆ Weak (Almost None)	☆☆☆☆☆ None
Yellowing Resistance	★★★★★ Outstanding (UV Stable)	★★☆☆☆ Moderate (Yellow Over Time)	★☆☆☆☆ Poor (Yellows Quickly)	★☆☆☆☆ Very Poor (Severe Yellowing)
Service Lifespan	★★★★★ 8–10 Years (Long-Term Protection)	★★★☆☆ 5–7 Years (Average)	★☆☆☆☆ 2–3 Years (Short)	☆☆☆☆☆ 1–2 Years (Very Short)
Stone Chip Resistance	★★★★★ Excellent (High Impact Strength)	★★★☆☆ Good (Average)	★☆☆☆☆ Weak (Easy to Damage)	★☆☆☆☆ Very Weak (Poor Protection)

6 CORE ADVANTAGES OF TPU PPF

1 High-Speed Stone Chip Protection



High impact resistance protects paint from gravel, sand, and road debris at high speed.

2 Heat Self-Healing Technology



Heat-activated molecular structure automatically repairs minor scratches and swirl marks.

3 Corrosion Resistance Barrier



Resists acid rain, bird droppings, tree sap, insect residue, and chemical stains.

4 Enhance Paint Gloss by 30%-50%



Deep gloss finish boosts paint depth, clarity, and overall visual appeal.

5 No Residue Removal, No Paint Damage



Easy to remove without glue residue or damage to original factory paint.

6 ADAS & EV Friendly



Does not interfere with ADAS radar, sensors or EV systems. Safe and compatible.

USAGE NOTES & REMINDERS

1. Professional Installation Required

PPF performance relies on dust-free environment and certified installer techniques.

2. Regular Maintenance Recommended

Regular cleaning and maintenance extend the lifespan and keep the film in optimal condition.

3. Severe Impact Cannot Be Repaired

PPF can self-heal minor scratches, but deep cuts or heavy impact damage cannot be fully self-repaired.

4. Natural Aging Replacement After 8–10 Years

Even high-quality TPU PPF will naturally age over time. Replacement after 8–10 years is recommended for best protection.

Invest in Long-Term Protection, Preserve Every Mile.

Choose premium aliphatic TPU PPF for superior protection, lasting beauty, and peace of mind.



Product Range Overview

FULL RANGE TPU PPF SOLUTIONS

Four Series. One Standard of Excellence.

01 CLEAR TPU PPF

Glossy Finish / High Transparency

- Crystal-clear appearance
- High gloss & long-lasting shine
- Excellent protection against stone chips, scratches & UV



02 MATT TPU PPF

Satin Matte Finish / Anti-Glare

- Elegant matte effect
- Anti-glare & fingerprint resistant
- Self-healing & long-term durability



03 GLOSS SOLID COLOR TPU PPF

Deep Gloss Finish / Pure Color

- Rich, deep color with high gloss
- Excellent color stability
- Self-healing & high protection



★ Popular Choice: Gloss Black

04 COLOR TPU PPF

Multi-Color Options / Stylish Protection

- Wide range of vibrant colors
- Customized style & personality
- Protection meets aesthetics



UNIFIED THICKNESS OPTIONS

6.5 mil	7.5 mil	8.5 mil	9.5 mil	10 mil

1 mil ≈ 0.0254 mm | The higher the thickness, the stronger the impact resistance and abrasion performance.

SAMPLE COMPARISON



Clear TPU PPF	Matt TPU PPF	Gloss Solid Color TPU PPF	Color TPU PPF
High Gloss / Transparent	Satin Matte / Anti-Glare	Deep Gloss / Pure Black	Multiple Colors / Stylish

Clear TPU PPF

Transparent High Gloss TPU Paint Protection Film







01

Invisible & Enhances Original Paint

Keeps the original color of your car while boosting gloss by **30%–50%.**

02

Aliphatic TPU Material

Long-lasting resistance to yellowing, locking in factory-finish paint protection.

03

Nano Hydrophobic Coating

Resists bird droppings, tree sap, acid rain and other corrosive stains.

04

Heat Self-Healing Technology

Heat-activated repair restores light scratches and swirl marks automatically.

APPLICATION SCENARIOS

- New car factory paint protection
- Full body wrap for sedans / SUVs / sports cars
- Partial protection for hood / door panels
- Full protection for new energy vehicles

AVAILABLE THICKNESSES

- 6.5 mil
- 7.5 mil
- 8.5 mil
- 9.5 mil
- 10 mil

THICKNESS SELECTION GUIDE

6.5 / 7.5 mil
Entry-level for daily driving and high-volume shops

8.5 mil
Mid-range for city driving and highway use

9.5 / 10 mil
Highway frequent, northern wind & sand, luxury cars – ultimate protection

PRODUCT PARAMETERS

Material	Aliphatic Polyester / Polyether / PCL Modified TPU
Warranty	6.5 / 7.5 mil = 6 Years 8.5 / 9.5 / 10 mil (PCL Material) = 8–10 Years
Adhesive	Imported low-tack pressure-sensitive adhesive, no residue after removal
Self-Healing	Heat-activated self-repair, quick recovery of light scratches
Yellowing Resistance	5–10 years slight yellowing

PERFORMANCE COMPARISON

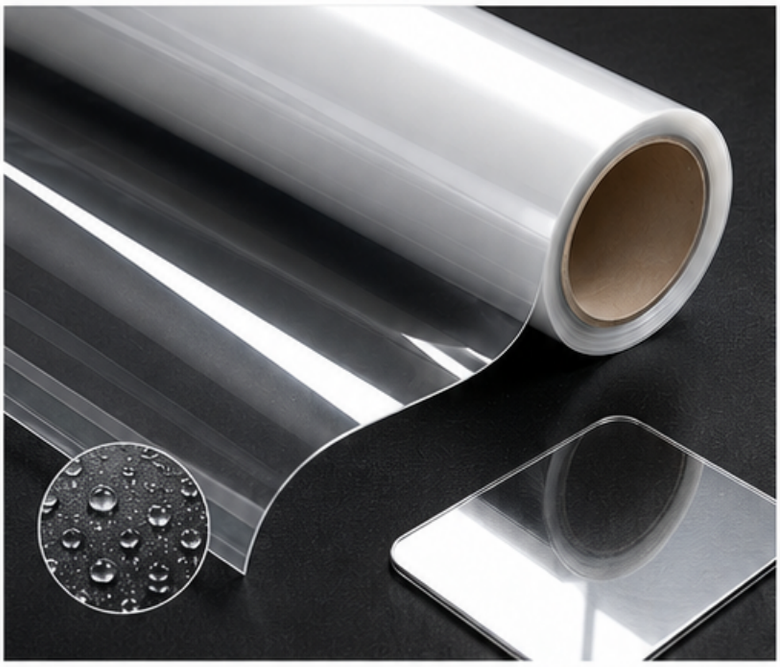
Item	Clear TPU PPF	PVC Vinyl Wrap
Protection Ability	Strong, resists stone chips & impacts	Weak, thin material easily damaged
Self-Healing	Supports heat self-healing	No self-healing function
Service Life	6–10 Years	2–5 Years
Yellowing Resistance	Excellent	Prone to yellowing and fading
Overall Performance	★★★★★	★★☆

CLEAR TPU PPF

PREMIUM HIGH-GLOSS PAINT PROTECTION FILM

Invisible Protection. Lasting Brilliance.

Protect Your Paint | High Gloss Finish | Self-Healing Technology | Hydrophobic Surface

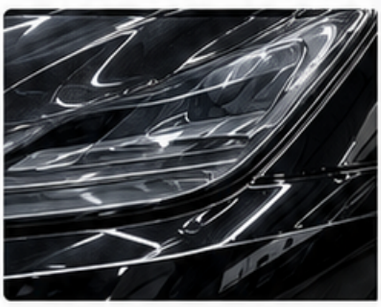


5-LAYER STANDARD STRUCTURE

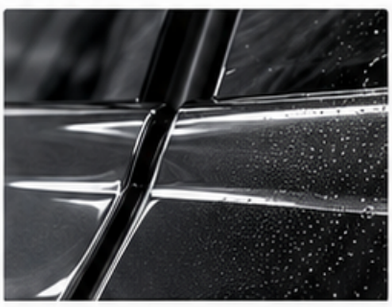
1. **NANO HYDROPHOBIC COATING**
   Repels water, dirt and stains.
2. **SELF-HEALING LAYER**
   Micro-scratch self-repair at minor swirls.
3. **TPU BASE FILM**
   High-performance TPU for durable protection.
4. **PRESSURE SENSITIVE ADHESIVE**
   Strong adhesion, easy installation, no residue.
5. **RELEASE LINER**
   Stable release, smooth installation.

PRECISION INSTALLATION DETAILS

Edge wrapping for full coverage and seamless protection.



Seamless edge wrapping



Perfect fit at door edges



Invisible protection



Full coverage on complex curves

RADAR & CAMERA COMPATIBLE

Does not interfere with millimeter-wave radar or in-vehicle cameras. Fully compatible with new energy vehicles and ADAS systems.

CHEMICAL RESISTANCE

Shields against acid rain, insect remains, asphalt, tree sap and other chemical contaminants. Prevents paint oxidation, stains and etching.

SELF-HEALING TECHNOLOGY

Micro-scratches and swirl marks auto-repair under heat. Keeps the surface flawless and glossy for years.

HYDROPHOBIC SURFACE

Advanced nano coating creates a strong water beading effect. Easy to clean, anti-fouling, and stays glossy.

CUSTOMER BENEFITS



- Higher resale value after installation.
- Peel off without damaging OEM paint, no polishing required.
- Keeps your car looking new for years.
- Long-term protection, cost-effective investment.

SHOP / INSTALLER ADVANTAGES



- Wide audience and high demand.
- High repeat purchase rate.
- Covers all types of passenger cars.
- Best-selling entry product to attract new customers and drive traffic.

6.5 / 7.5 mil PPF
WARRANTY: 6 YEARS

8.5 / 9.5 / 10 mil PCL TPU
WARRANTY: 8–10 YEARS

Anti-Stone Chip | UV Resistance | Stain Resistance | High & Low Temp Resistance | Yellowing Resistance

TECHLON
PAINT PROTECTION FILM

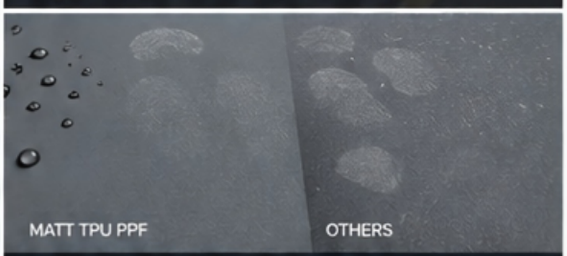
Matt TPU PPF

TRANSPARENT MATTE TPU PAINT PROTECTION FILM





LOW-REFLECTION DRIVING PERFORMANCE
Low-gloss surface for safer driving and better visibility.



ANTI-FINGERPRINT & WATER-RESISTANT
Resists fingerprints, water spots and dust for an easier daily care.

4 CORE ADVANTAGES

01. NATIVE MATTE COATING
Original matte surface, keeps the original color, soft touch and low reflection.

02. STABLE & DURABLE
Integrated matte layer will not peel or haze, while retaining full TPU protective performance.

03. EASY CLEAN & MAINTENANCE
Low visibility of fingerprints, water spots and dust, saving time and effort on daily care.

04. PREMIUM TPU PROTECTION
High-grade aliphatic TPU with anti-yellowing, self-healing and strong stone-chip resistance.

SUITABLE FOR

- Factory Matte Paint Protection
- High-Performance Sports Cars
- Luxury Sedans & Business Cars
- Owners Who Prefer Low-Key Elegance
- Showroom & Exhibition Car Protection

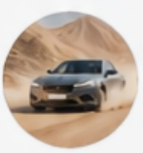
AVAILABLE THICKNESS

- 6.5 mil
- 7.5 mil
- 8.5 mil
- 9.5 mil
- 10 mil

THICKNESS RECOMMENDATION



7.5 / 8.5 mil
Most popular for shops.
Balanced performance between texture and protection.



9.5 / 10 mil
Top choice for high-speed driving and harsh environments such as windy or sandy areas.

TECHNICAL SPECIFICATIONS

Base Material:	Aliphatic Modified Matte TPU
Warranty:	7–10 Years
Adhesive:	Imported Low-Tack PSA
Self-Healing:	Heat Activated Self-Healing
Yellowing Resistance:	7–10 Years Anti-Yellowing

MATT TPU PPF vs PVC MATTE VINYL

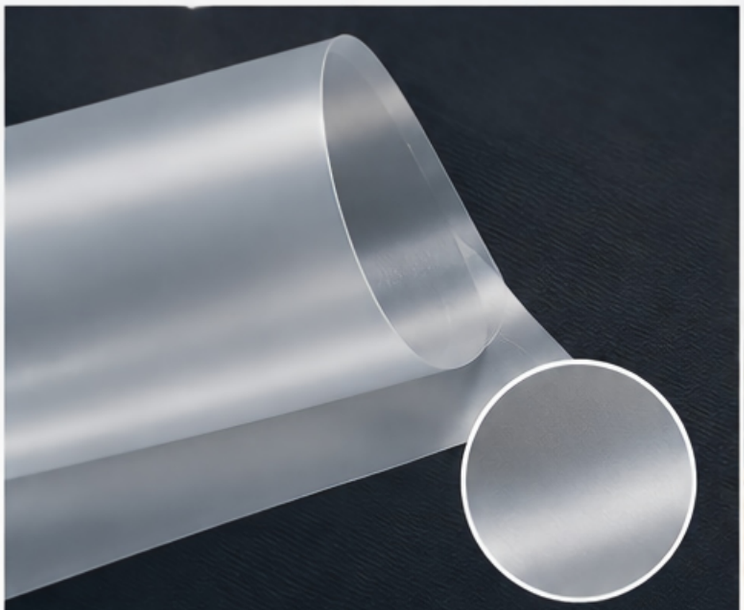
ITEM	MATT TPU PPF	PVC MATTE VINYL
Paint Protection	Stone chip & scratch resistant	Decorative only, no protection
Matte Layer Stability	Integrated, no peeling or whitening	Surface layer easy to wear and whiten
Self-Healing	Yes	No
Service Life	7–10 Years	2–4 Years easy aging

TECHLON
FILM SOLUTIONS

Protection & Durability | Invisible Matte Finish | Self-Healing Technology | Long-Term Performance

Matt TPU PPF

TRANSPARENT MATTE TPU PAINT PROTECTION FILM



PREMIUM MATTE TPU
Film Sample

- Integrated **Co-Extruded Matte Layer**
- Stable & Durable No Peeling No Layering
- Robust TPU Full Protection Performance

SUNLIGHT REFLECTION COMPARISON

Glossy Paint vs. Matt TPU PPF Wrap







PERFORMANCE HIGHLIGHTS

INTEGRATED MATTE LAYER WITH TPU SUBSTRATE

The matte coating is co-extruded with the TPU substrate, ensuring no risk of delamination, peeling or hazing.

NO GLARE UNDER STRONG LIGHT, HIGHER NIGHT DRIVING COMFORT

Reduces harsh reflections and eye fatigue in strong sunlight, providing a more comfortable and safer night driving vision.

HYDROPHOBIC · ANTI-FOULING CORROSION ISOLATION · ENHANCED LOOK

Repels water, blocks dirt, isolates corrosion, and enhances the matte texture for a cleaner and more refined look.

FOR PROFESSIONAL INSTALLERS & SHOPS



- ☑ **Premium Matte Finish Upgrade**
  Achieve high-end matte look while keeping original color tone.
- ☑ **Protection + Aesthetics in One**
  Combines paint protection and matte finish upgrade, increasing perceived value and customer satisfaction.
- ☑ **Higher Profit, Higher Value**
  Differentiate from cheap PVC matte films. Offer both protection and premium matte finish—higher selling price, higher margin.

	MATT TPU PPF	PVC MATTE FILM
Paint Protection	Stone chip & scratch resistant	Decorative only, no protection
Matte Layer Stability	Integrated co-extrusion, no peeling	Surface layer easy to wear or whiten
Self-Healing	Yes	No
Service Life	7–10 Years	2–4 Years

7-10 YEARS

ALL MATT TPU SERIES

WARRANTY: 7–10 YEARS

- STRONG PROTECTION AGAINST STONE CHIPS & SCRATCHES
- HEAT-ACTIVATED SELF-HEALING TECHNOLOGY
- HYDROPHOBIC EASY CLEAN
- ANTI-YELLOWING UV RESISTANT
- HIGH GLOSS MATTE TEXTURE PREMIUM LOOK

HIGH GLOSS BLACK SOLID COLOR TPU PPF





01 Mirror Gloss Finish



02 Heat Self-Healing Demo

4 CORE ADVANTAGES

1. TWO-IN-ONE SOLUTION

Combines paint protection and color change in one film. No need for additional PVC wrap.

2. DEEP BLACK, HIGH GLOSS

Integral black base for rich saturation and mirror gloss finish, comparable to OEM piano black.

3. ALIPHATIC COLOR TPU

Aliphatic colored TPU resists fading, yellowing and graying. Long-term color stability with 8-year performance.

4. FULL TPU PROTECTION

Delivers all TPU benefits: stone chip resistance, heat self-healing, and clean removal with no adhesive residue.

RECOMMENDED APPLICATIONS



Perfect for white, gray, and light color vehicles looking to upgrade to a glossy black appearance.
Ideal for performance cars, luxury vehicles, and customers who love the stealthy "Black Warrior" style.

AVAILABLE THICKNESS

7.5 mil | 8.5 mil | 9.5 mil | 10 mil

SELECTION ADVICE: For full vehicle wraps, choose 8.5 mil or above for enhanced impact resistance and protection.

PRODUCT SPECIFICATIONS

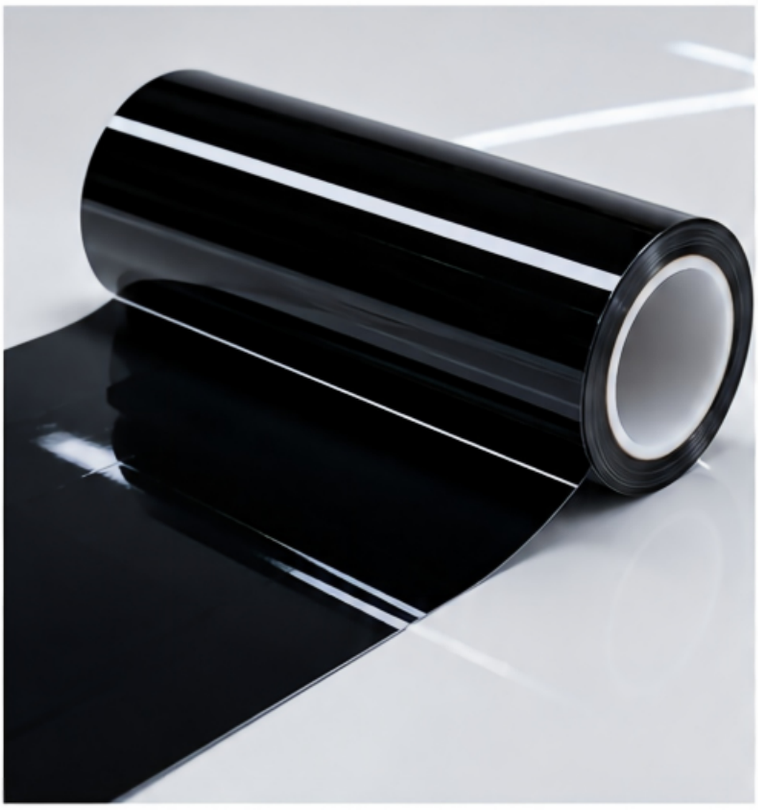
BASE MATERIAL	Integral Colored Aliphatic TPU
WARRANTY	8 Years
ADHESIVE	Low Tack Imported Pressure Sensitive Adhesive
SELF-HEALING	Heat Activated Self-Healing
YELLOWING RESISTANCE	8 Years Stable, No Fading, No Haze

WHY CHOOSE GLOSS BLACK TPU PPF?

ITEM	GLOSS BLACK TPU PPF	BLACK PVC WRAP
FUNCTION	Color Change + Paint Protection	Appearance Only
STONE CHIP RESISTANCE	Thick TPU Base, Strong Protection	Thin, Easily Damaged
COLOR STABILITY	8 Years, No Fading or Graying	1–3 Years, Fades & Loses Gloss
SELF-HEALING	Yes	No

High Gloss Black Solid Color TPU PPF |

DEEP BLACK. HIGH GLOSS. COMPLETE PROTECTION.







ADVANCED PERFORMANCE

INTEGRAL COLOR IN TPU BASE

The black color is fused within the TPU base material, not surface coated. No fading, no wearing white.

UV & WEATHER RESISTANT

Aliphatic colored TPU ensures long-term outdoor stability. No yellowing, no gray tone.

SENSOR & CAMERA COMPATIBLE

High signal transparency. Fully compatible with radar, cameras, and parking sensors.

EV COMPATIBLE

Safe for all new energy vehicles. No interference with electric systems or ADAS.



STORE BUSINESS ADVANTAGES

HIGHER PREMIUM MARGIN

High gloss black PPF has strong premium positioning with significantly higher profit margin.

ONE-STOP SOLUTION

No need to install PPF and color wrap separately. One-step installation, saving time and labor.

IMPROVE CUSTOMER SATISFACTION

Better visual result, longer durability and full protection. More repeat customers, more referrals.

8 YEARS

FULL GLOSS BLACK SERIES OFFICIAL WARRANTY: 8 YEARS

Stone Chip Resistance | Heat Self-Healing Technology | No Adhesive Residue | Corrosion Resistant | 8 Years Warranty

Color TPU PPF

Color TPU Paint Protection Film

TECHLON
Protection Meets Perfection

Stunning Colors. Ultimate Protection.









1 Integrated Colored Aliphatic TPU
High-gloss or matte finish options
One-piece coloration, long-lasting beauty.

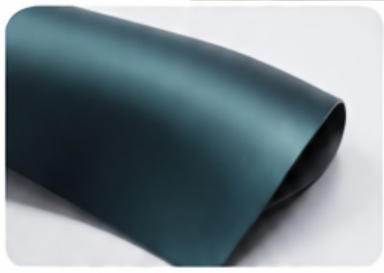
2 Dual Protection: Style + Paint
Provides vivid color transformation and factory-level paint protection, overcoming PVC wrap limitations.

3 UV & Weather Resistance
Resists UV rays, high temperatures, fading, and discoloration.

4 Full-Scale TPU Protection
Self-healing, stone chip resistance, corrosion barrier—complete TPF protection performance.



Gloss Color TPU PPF



Matte Color TPU PPF

IDEAL FOR

- Personalized Color Change
- Full-Body or Two-Tone Styling
- Performance Cars
- Premium Clients in Tuning & Detailing Shops

AVAILABLE THICKNESS

6.5mil | 7.5mil | 8.5mil

SELECTION GUIDE

- Daily driving in city: **6.5mil / 7.5mil**
- Frequent highway driving: **8.5mil**

PRODUCT SPECIFICATIONS

Material	Integrated Colored Aliphatic TPU
Warranty	6.5–7.5mil = 6 Years 8.5mil = 8 Years
Adhesive	Low-tack Pressure-Sensitive Adhesive Peel off without damaging paint
Self-Healing	Heat-Activated Self-Healing Technology
Yellowing / Fading Resistance	6–8 Years Stable Anti-yellowing & Anti-fading

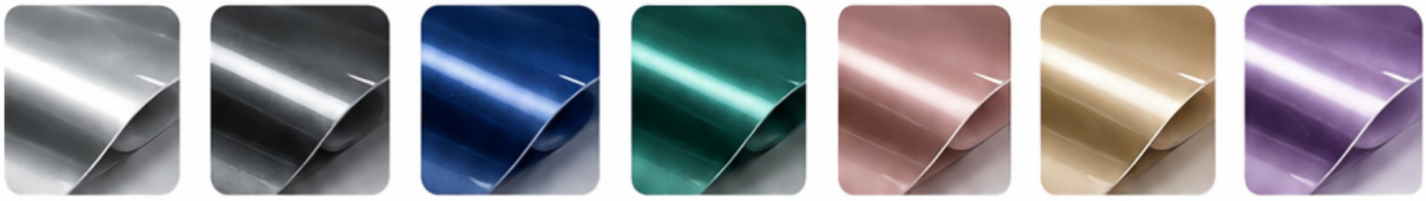
COLOR TPU PPF vs PVC COLOR WRAP

Item	Color TPU PPF	PVC Color Wrap
Overall Function	Color Change + Paint Protection	Decorative Only
Stone Chip Resistance	Moderate Protection	No Protection
Fading Cycle	6–8 Years	1–3 Years
Scratch Self-Healing	Supports Heat Self-Healing	No Self-Healing

Color TPU PPF

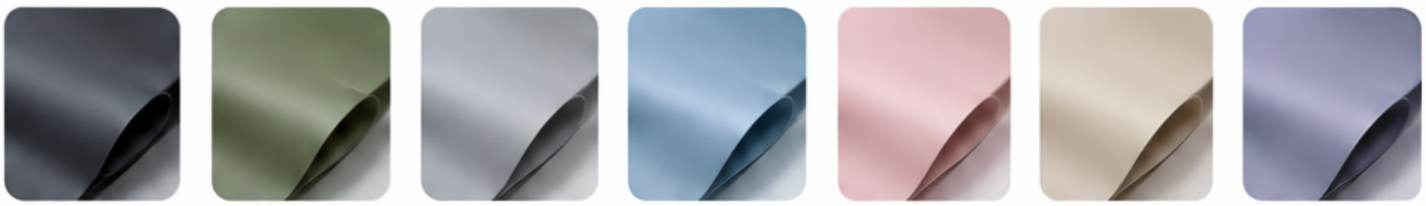
Vivid Colors. Premium Protection.

METALLIC SERIES



Titanium Silver | Midnight Grey | Sapphire Blue | Emerald Green | Rose Gold | Champagne Gold | Galaxy Purple

MATTE SERIES



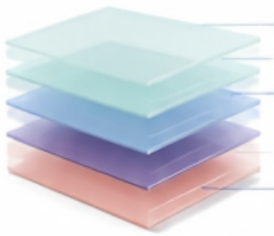
Matte Dark Grey | Matte Military Green | Matte Nardo Grey | Matte Ice Blue | Matte Sakura Pink | Matte Sand Beige | Matte Lavender Grey

HIGH GLOSS SERIES



Gloss Black | Gloss White | Gloss Racing Red | Gloss Sky Blue | Gloss Mint Green | Gloss Violet | Gloss Yellow

5-LAYER STANDARD TPU STRUCTURE



- Hydrophobic & Stain-Resistant Top Coating
- Heat Self-Healing Layer
- Color TPU Base Film (Integrated Aliphatic TPU)
- Pressure-Sensitive Adhesive Layer
- PET Release Liner

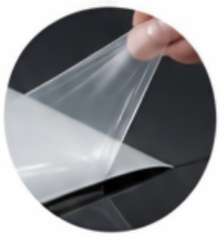
Surface hydrophobic & anti-fouling coating for easy cleaning and long-lasting gloss/matte finish.

FULL CAR WRAP & PARTIAL COLOR ACCENT

Full body wrap or partial accents on hood / roof / side mirrors for personalized styling.



CLEAN REMOVAL, PAINT-SAFE



Tear off easily without residue. Changing colors will not damage your original factory paint.

No Residue | Paint-Safe | Worry-Free

DEALER ADVANTAGE

- Target premium modification customers.
- Differentiate from low-cost PVC color wraps.
- Boost store image with high-end products.
- Higher customer satisfaction & repeat business.



WARRANTY ASSURED

6.5/7.5mil Warranty: 6 Years | **8.5mil Warranty: 8 Years**

UV Resistant | High Temperature Resistant | Anti-Fading | Self-Healing | Stone Chip Resistant | Corrosion Resistant

PPF ACCESSORIES + INSTALLATION CONSUMABLES & EQUIPMENT

Professional supporting products for PPF installation and protection



01 HeadLight TPU PPF

Headlight Protection Film

Purpose
Protect headlights from scratches, yellowing, stone chips and UV damage. High transparency keeps original light output.

Target Customers
PPF installers, detailing shops, car modification shops, auto service centers



02 Windsield Protection Film

Windshield Protection Film

Purpose
Anti-scratch, anti-stone chip, and impact resistant. Clear visibility, weatherproof and easy to clean.

Target Customers
PPF installers, auto glass service centers, fleet management companies



03 PPF Installation Gel

PPF Installation Gel

Purpose
Provides optimal lubrication for film positioning, reduces bubbles and improves installation efficiency. Safe for all paint surfaces.

Target Customers
PPF installers, detailing shops, car wash centers, auto service shops



04 PPF Precut Software

PPF Precut Software

Purpose
Provides accurate vehicle data and precut templates, improves cutting efficiency and reduces material waste.

Target Customers
PPF installers, film wholesalers, auto service chains, OEM/ODM clients



05 PPF Cutting Plotter

PPF Cutting Plotter

Purpose
High-precision cutting of PPF templates. Stable performance, fast speed, easy operation.

Target Customers
PPF installers, auto detailing chains, film distributors, OEM/ODM clients

High Quality
Reliable Materials

Professional
Performance

Wide Application
For All Needs

Strong Support
& Global Service

OUR OTHER PRODUCT LINES

ONE-STOP SOLUTION FOR FILM PRODUCTS

AUTO WINDOW TINT FILM

Nano Ceramic Film / UV400 Skin Care Film / Magnetron Sputter Film / Sunroof Film / Chameleon Window Film













CAR WRAP VINYL FILM (PVC)

Satin Metallic / Gloss Crystal / Chameleon Vinyl



BUILDING FILM

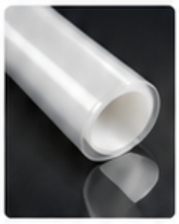
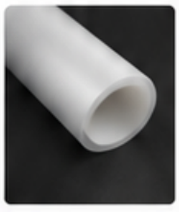
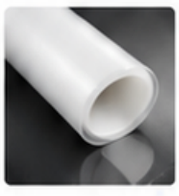
Decorative Film / Safety & Explosion-proof Film





TECHLON TPU PPF
PRODUCT WARRANTY COMPARISON

ALL SERIES • OFFICIAL WARRANTY • QUALITY YOU CAN TRUST

PRODUCT SERIES	AVAILABLE THICKNESS	BASE MATERIAL	OFFICIAL WARRANTY
 **CLEAR TPU PPF** **Gloss Finish** High Transparency, Enhance Paint Brightness	6.5 mil 7.5 mil 8.5 mil 9.5 mil 10 mil	Aliphatic TPU	**6 YEARS** (6.5 / 7.5 mil) **8–10 YEARS** (8.5 / 9.5 / 10 mil) PCL BASE
 **MATT TPU PPF** **Matte Finish** Low Reflection, Soft Touch, Anti-fingerprint	6.5 mil 7.5 mil 8.5 mil 9.5 mil 10 mil	Aliphatic TPU	**7–10 YEARS** ALL MATT TPU SERIES
 **HIGH GLOSS BLACK SOLID COLOR TPU PPF** **High Gloss Black Finish** Color & Protection in One Deep Black, Mirror Gloss	7.5 mil 8.5 mil 9.5 mil 10 mil	Aliphatic TPU (Colored)	**8 YEARS** FULL GLOSS BLACK SERIES
 **COLORED TPU PPF (OTHER COLORS)** **Various Colors** Glossy or Matte Optional	7.5 mil 8.5 mil 9.5 mil 10 mil	Aliphatic TPU (Colored)	**7–10 YEARS** ALL COLORED TPU SERIES
 **OTHER MATERIAL FILMS** Not for Long-term Warranty Support	TPU (Aromatic) TPH PVC	Aromatic TPU TPH PVC	**NO LONG-TERM WARRANTY** PRONE TO YELLOWING, CRACKING, AGING

IMPORTANT WARRANTY NOTICE

Only **Aliphatic TPU** products are entitled to official warranty. Aromatic TPU, TPH, and PVC products do not come with any long-term anti-yellowing warranty.

OUR CORE WARRANTY COMMITMENT

ANTI-YELLOWING
Long-term clarity, no discoloration

CRACK RESISTANT
No cracking over time

NO EDGE LIFTING
Strong adhesion, no lifting

COATING INTEGRITY
Coating remains intact

NO RESIDUAL GLUE
Clean removal, no glue left

SELF-HEALING
Self-healing function works normally

WARRANTY TERMS

- Valid under normal use and proper installation
- Warranty excludes man-made damage or improper maintenance
- Please keep your purchase invoice
- Final interpretation right belongs to TECHLON

WARRANTY COVERAGE & EXCLUSIONS

Please read the following terms carefully to understand the scope of our warranty.

WHAT IS COVERED

We provide warranty coverage for defects in materials and workmanship under normal use and proper installation.

NATURAL YELLOWING	The film will not yellow, discolor, or lose clarity under normal outdoor exposure and climatic conditions within the warranty period.
DELAMINATION	The film will not experience delamination, bubbling, or separation of layers under normal use.
COATING PEELING	The top coating (hydrophobic or matte layer) will not peel, flake, or degrade under normal use.
NATURAL EDGE LIFTING	The film edges will remain securely adhered and will not lift or curl under normal use and proper installation.
SELF-HEALING PERFORMANCE	The self-healing function will remain effective for light scratches and swirl marks under normal use conditions.
SAFE REMOVAL	When removed in accordance with our guidelines, the film will not damage or leave adhesive residue on the original factory paint.

Under compliant operation conditions, the shelf life varies depending on the thickness and material of different products, ranging from 3 to 10 years.

WHAT IS NOT COVERED

The following conditions are not covered under this warranty.

SEVERE IMPACT DAMAGE	Damage caused by collisions, accidents, falling objects, or other external impacts that break or tear the film.
MAN-MADE SHARP SCRATCHES	Damage caused by sharp objects, intentional scratching, or improper use (such as keys, tools, or abrasive materials).
IMPROPER INSTALLATION	Installation errors due to non-clean room environment, dust, debris, bubbles, or improper handling during installation.
CHEMICAL CORROSION	Damage caused by strong acids, alkalis, solvents, or corrosive substances.
INADEQUATE MAINTENANCE	Failure to maintain or clean the film for an extended period, leading to surface damage or degradation.
CHEMICAL CLEANING	Damage caused by using harsh chemicals, industrial cleaners, or products not recommended for TPU films.
ACCIDENTAL DAMAGE	Damage resulting from natural disasters, vandalism, fire, theft, or any other force majeure events.

IMPORTANT NOTES

- **Warranty period starts from the date of installation.**
- Warranty is valid only with the original proof of purchase and installation record.
- Warranty coverage applies to the original purchaser only and is non-transferable.

Install in a clean, dust-free environment

Use pH-neutral cleaning products only

Regular maintenance is recommended

Keep your purchase and installation records

TECHLON reserves the right of final interpretation of this warranty policy. This warranty is provided in lieu of all other warranties, express or implied. For full warranty terms and conditions, please contact your authorized distributor.

FULL CLAIM & COMPENSATION PROCESS

Standardized Process • Transparent Handling • Protect Partners' Rights

01
BATCH ARCHIVING



- Each roll has a unique batch code
- **Production** date & operator recorded
- **Raw material traceability** ensured
- **Archive retained ≥ 5 years**

02
END-USER VEHICLE REGISTRATION



- Installer fills in vehicle information
- **VIN**, installation date, installer information
- **Photos of installed areas**
- System registration within 7 days

03
AFTER-SALES VERIFICATION



- **Customer** submits claim with relevant photos/videos
- **Our team verifies** within 3 working days
- **Confirm coverage** & liability

04
FILM REPLACEMENT / COMPENSATION PLAN



- **Provide film replacement or** compensation
- **Solutions based on actual situation**
- **Partners' rights fully protected**

Our Commitment:
Clear process • Fast response • Fair solution
Long-term cooperation is built on trust and responsibility.

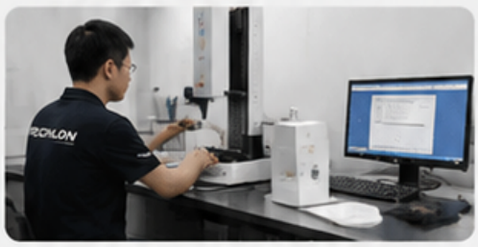
QUALITY CONTROL & LAB TESTING EVIDENCE

WEATHERING AGING TEST EQUIPMENT



- UV aging test, temperature & humidity cycle test
- Simulates extreme environment
- Ensures long-term stability

FACTORY SAMPLING INSPECTION



- Random sampling from each batch
- Thickness, adhesion, tensile strength, elastics, etc.
- Every roll meets the inspection standard

RAW MATERIAL QUALITY INSPECTION



- SGS / Internal lab dual inspection
- Ensure raw materials comply with environmental & safety standards
- Only qualified materials used

CERTIFICATES & TEST REPORTS (EXCERPT)



CE Certification



RoHS Test Report



SGS Test Report



ISO 9001 Certified

Strict Quality Control | Complete Traceability | Reliable Warranty Support

TECHLON

THICKNESS & BASE MATERIAL SELECTION GUIDE

Choose the Best Protection for Different Customer Needs and Driving Environments



THICKNESS APPLICATION GUIDE

THICKNESS	PRODUCT POSITIONING	APPLICABLE CUSTOMERS & ROAD CONDITIONS	REFERENCE IMAGE
6.5mil	Entry-Level Economy	City commuting, light protection needs	
7.5mil	Mainstream All-Purpose	Daily family cars, urban & highway mixed driving	
8.5mil	Mid-High Protection	Frequent highway driving, suburban & gravel roads	
9.5/10mil	Top-Tier Extra Thick	Luxury vehicles, northern windy & sandy areas, high-speed frequent driving	

BASE MATERIAL SELECTION GUIDE BY REGION



POLYESTER TPU

Recommended for Northern Windy & Sandy Areas

- Strong impact resistance
- Excellent durability
- Better protection against sand, gravel, and debris



POLYETHER TPU

Recommended for Southern Coastal & High-Humidity Areas

- Superior hydrolysis resistance
- Excellent weather durability
- Long-term stability in humid environments



PCL MODIFIED TPU

Recommended for High-End Full Vehicle Wraps

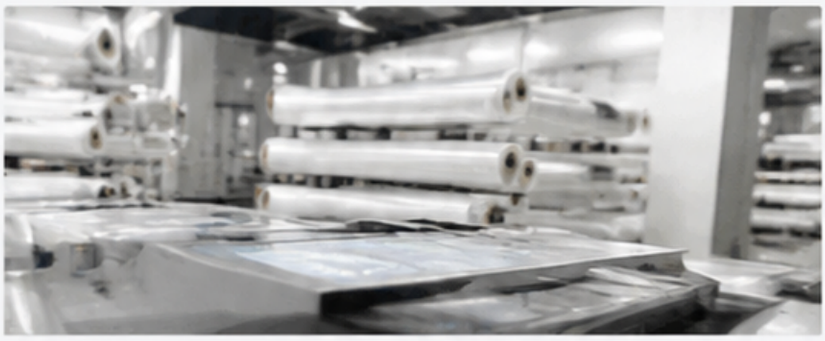
- Balanced impact resistance
- Excellent hydrolysis resistance
- Ideal for premium vehicles and all-around protection

TIPS: Choosing the right thickness and base material not only enhances protection performance but also improves customer satisfaction and long-term reputation.

TECHLON
TPU PPF FILM

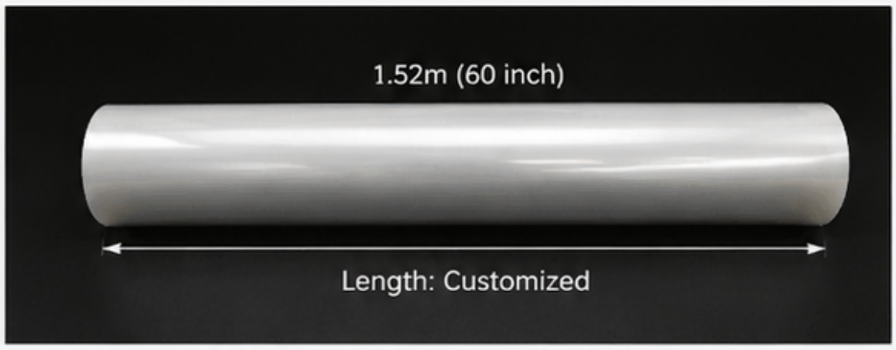
OEM & ODM
CUSTOM SERVICE

Professional PPF Manufacturer
Your Trusted Factory Partner



CUSTOM ROLL SIZE

Standard width 1.52m (60 inch), length can be cut as per your requirements.



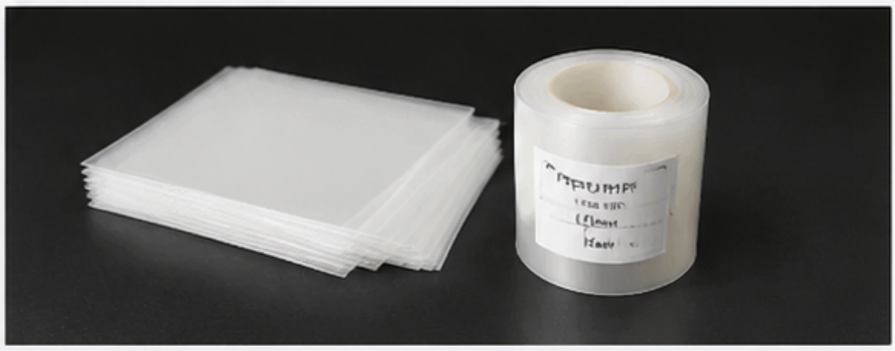


CUSTOM PACKAGING

Paper tube and color box can be customized with your LOGO, brand colors and design.

SAMPLE SUPPORT

Free small samples and small roll samples available. Quick sample delivery to support your market testing.



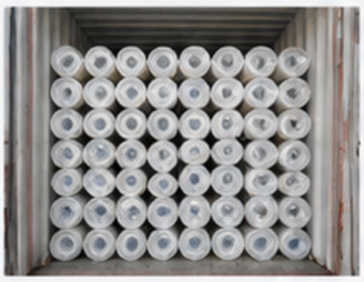
DELIVERY INFORMATION

MOQ
Flexible MOQ based on product type and specifications.

LEAD TIME
7-15 working days for standard orders. Bulk order to be confirmed.

PACKING
Standard export packing: carton box with protective film and paper tube.

SHIPPING
By sea / air / express supporting DDP, FOB, CIF and other terms.









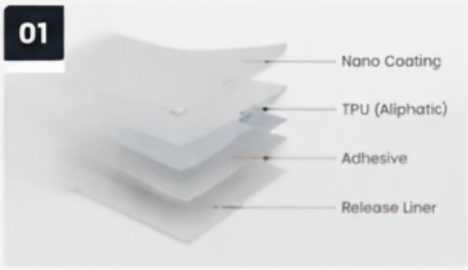
HIGH QUALITY TPU PPF SUPPLIER | OEM & ODM SERVICE | WIN-WIN COOPERATION

FAQ

FREQUENTLY ASKED QUESTIONS



01



What is the core difference between TPU and TPH, PVC?

TPU (Thermoplastic Polyurethane) is an elastomer with high toughness, stain resistance, high and low temperature resistance, and self-healing.

TPH is a modified TPU with lower performance and poorer aging resistance.

PVC (Polyvinyl Chloride) is a plasticizer-based material, prone to yellowing, cracking, and hardening, with a short service life.

Conclusion: TPU offers better long-term protection and value.

02



Will the matte TPU film peel off or lose its matte effect?

No. Our matte TPU uses an integrated matte process that bonds the matte layer with the TPU base material.

It will not peel, crack, or become glossy under normal use.

It maintains a consistent matte texture for the long term.

03



What are the advantages of colored TPU compared to PVC wrap films?

- TPU is more durable and resistant to yellowing.
- Strong weather resistance, no cracking in extreme cold or heat.
- High gloss color with long-term stability.
- Self-healing topcoat for minor scratches.
- No residual glue after removal, safe for original paint.

TPU is the ideal premium alternative to traditional PVC wrap films.

04



Does the film affect radar or camera sensors for self-driving or ADAS?

No. Our TPU PPF is made from non-metallic, high-transparency materials.

It does not block radar waves or interfere with camera performance.

Fully compatible with ADAS, 360° cameras, and autonomous driving systems.

05



Will the film leave glue or damage the original paint when removed?

No. Our TPU PPF is made with high-quality, removable adhesive.

It leaves no glue, does not damage the paint, and is safe for original factory finishes.

Ensures worry-free removal and protects your vehicle's value.

06



How to choose the right TPU base material for different climates?

- **Northern regions (cold climate):** Recommended PCL-based TPU, stays soft and resistant to cracking in low temperatures.
- **Southern regions (hot climate):** Recommended polyester-based TPU, high heat resistance, anti-yellowing, and UV protection.

Choose the right base for long-term performance in your local climate.

CONTACT US

TECHLON
TPU PPF FILM

WE ARE HERE TO SUPPORT YOUR BUSINESS

GET IN TOUCH

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WhatsApp / WeChat
+86 159-2169-1863

Website: www.techlonfim.com

SAMPLE REQUEST

We support free small samples and small roll samples for your testing.





- Free small sample for quality test
- Custom size small roll available
- Fast sample delivery worldwide

WELCOME GLOBAL CAR FILM IMPORTERS, CHAIN INSTALL SHOPS TO COOPERATE WITH US!

We are a professional TPU PPF factory.
Looking forward to building a long-term and win-win partnership with you.



TECHLON
TPU PPF FILM

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Professional TPU PPF Manufacturer and Supplier.