

# AUTOMOTIVE EXTERIOR FILM SOLUTIONS

KAVRON Product Catalogue

Protection, Styling and  
Graphic Application Solutions



## Core Product Solutions



TPU Paint  
Protection Film



Matte  
TPU PPF



TPU  
Color PPF



TPU Light  
Protection Film



TPH Light  
Tint Film



Automotive  
Decal Film



Printable  
Vehicle Wrap Film



Overlamination  
Film



TPU Carbon  
Fiber Wrap Film



PVC Carbon  
Fiber Vinyl Film



Top Coat  
Self-Healing

TPU Layer  
Impact Resistance

Adhesive Layer  
Stable Bonding

Release Liner  
Easy Installation

## Customized Solutions



Climate-based  
material tuning



OEM / ODM  
support



Custom thickness,  
size, adhesive  
and coating

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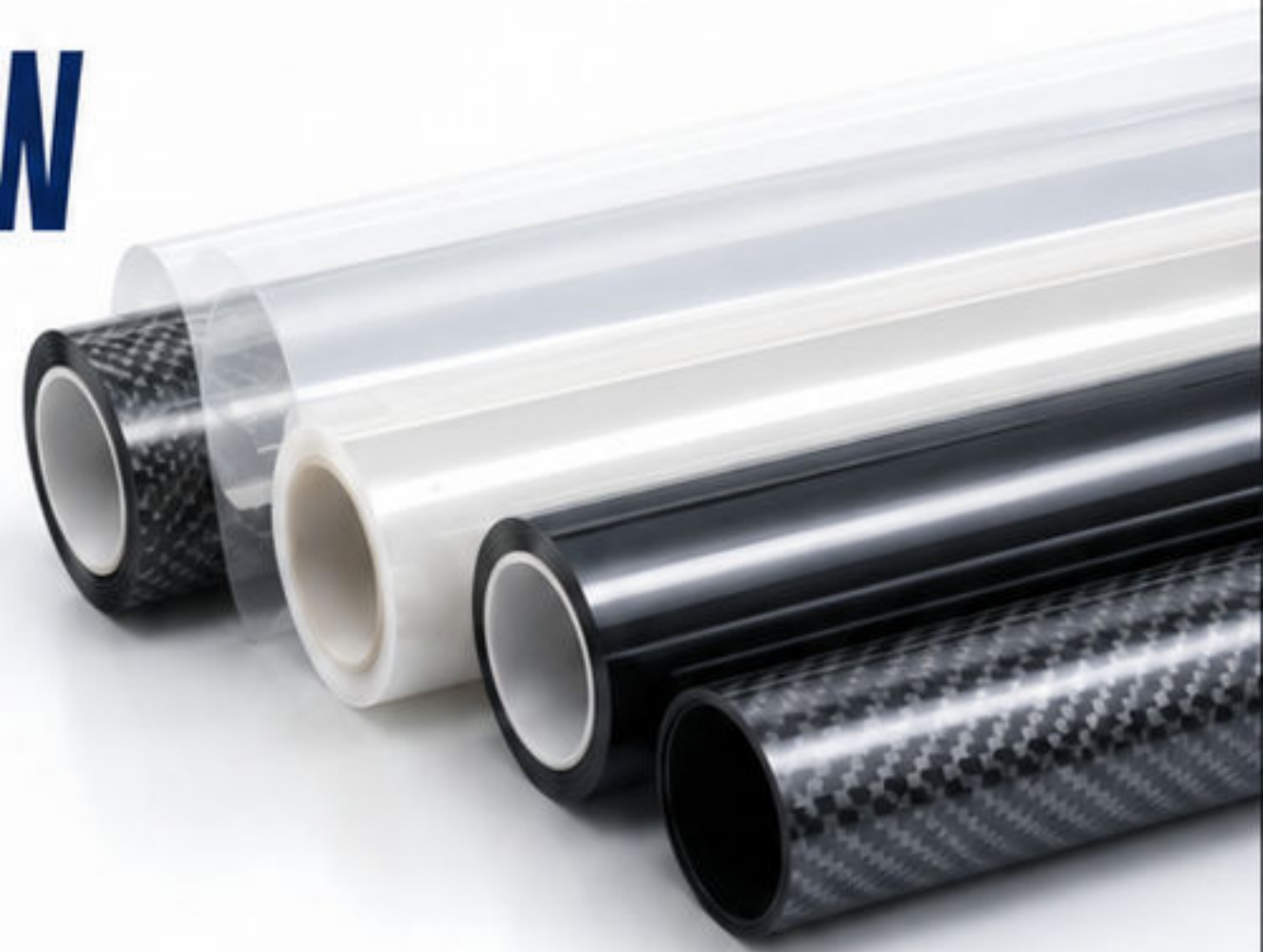
ENGINEERED FILMS.  
PROVEN PERFORMANCE.

# COMPANY OVERVIEW

Solution-Driven Automotive Exterior Film Partner

Guangzhou Yuehang Technology Development Co., Ltd.

KAVRON provides automotive exterior functional film solutions for paint protection, color styling, light protection, graphics and decorative applications. We support OEM / ODM projects, climate-based material tuning, and customization of thickness, size, adhesive and coating systems for different markets.



## Source Factory Supply

Direct source from our own factory to ensure stable quality and competitive supply.



## OEM / ODM Manufacturing

Flexible cooperation models to support OEM / ODM projects and private label.



## Climate-Based Material Tuning

Optimized material formulas for different climates and market environments.



## Custom Adhesive and Coating Solutions

Customizable thickness, adhesive and coating systems to meet your specific requirements.



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# PRODUCT SOLUTION MATRIX

## Core Automotive Exterior Film Portfolio

| Series                                                                                                                 | Product                               | Description                                    | Applicable Vehicles                                                                                                 | Positioning                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <br>Paint Protection Series           | TPU Paint Protection Film / PPF       | Premium paint protection                       | <br>Car / motorcycle / bicycle   | <br>Recommended          |
| <br>Paint Protection Series         | Matte TPU Paint Protection Film       | Matte paint protection                         | <br>Car / motorcycle / bicycle | <br>Recommended        |
| <br>Color Protection Series         | TPU Color PPF                         | Color change plus protection in one            | <br>Car / motorcycle           | <br>Recommended        |
| <br>Light Film Series               | TPU Light Protection Film             | Premium headlight and taillight protection     | <br>Car / motorcycle           | <br>Recommended        |
| <br>Light Film Series               | TPH Light Tint Film                   | Cost-effective light styling                   | <br>Car / motorcycle           | <br>Volume product     |
| <br>Graphics and Decal Series       | Automotive Decal Film / Plotter Vinyl | Graphics, striping and markings                | <br>Car / motorcycle / bicycle | <br>Volume product     |
| <br>Graphics and Advertising Series | Printable Vehicle Wrap Film           | Fleet graphics and vehicle advertising         | <br>Car / truck / motorcycle   | <br>Recommended        |
| <br>Graphics and Advertising Series | Polymeric Overlamination Film         | Protective overlamination for printed graphics | <br>Car / truck / motorcycle   | <br>Supporting product |
| <br>Decorative Texture Series       | TPU Carbon Fiber Wrap Film            | Premium carbon texture decoration              | <br>Car / motorcycle / bicycle | <br>Premium            |
| <br>Decorative Texture Series       | PVC Carbon Fiber Vinyl Film           | Cost-effective textured decoration             | <br>Car / motorcycle / bicycle | <br>Volume product     |

### Solution Highlights



Protection



Styling



Graphics



Customization

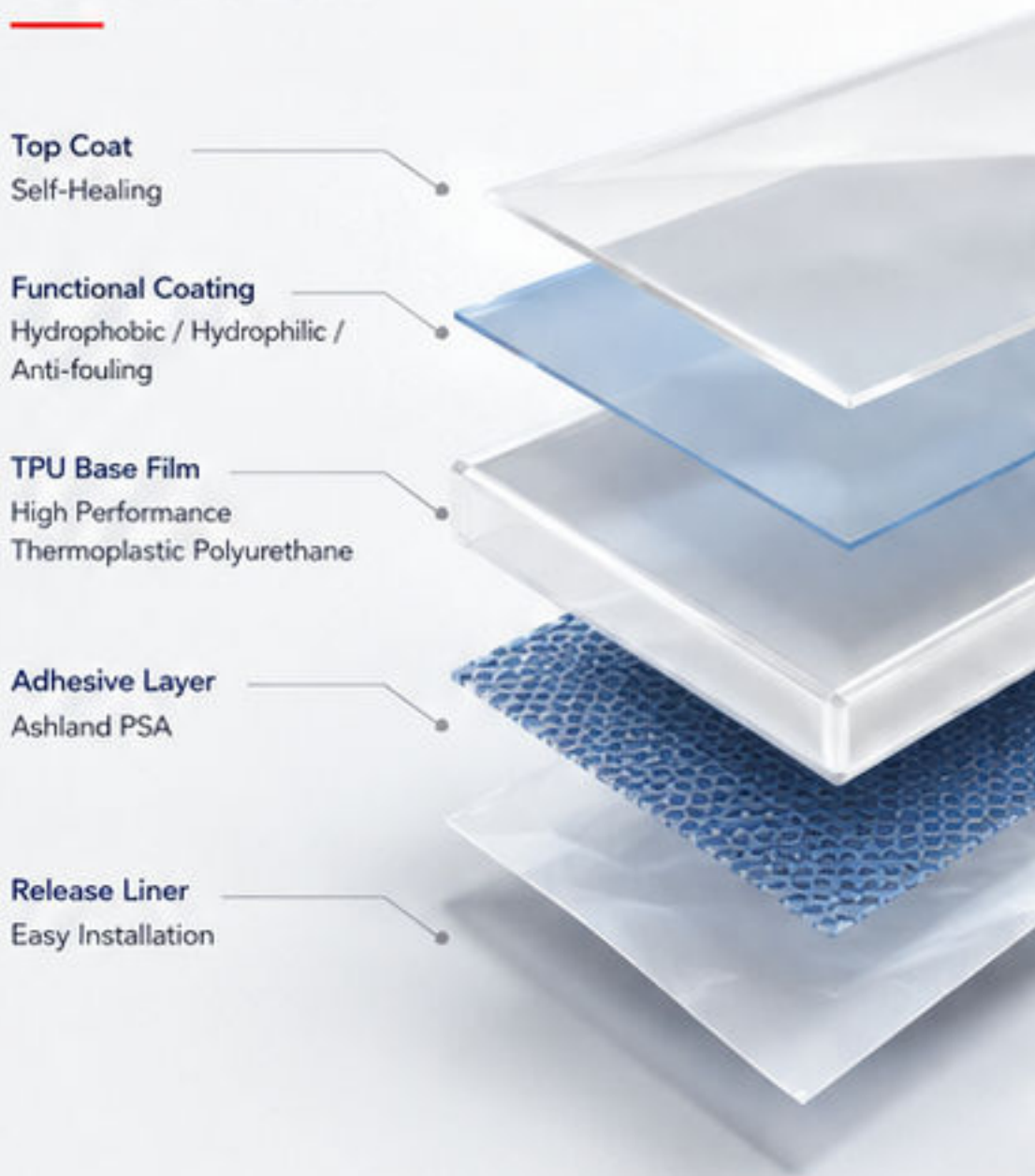


# TPU PAINT PROTECTION SOLUTIONS

Clear, Matte and Satin  
Surface Protection



## TPU Film Structure



## A) TPU Paint Protection Film / PPF



|                   |                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Standard size     | 1.52 m × 15 m; jumbo roll available                                                                                                    |
| Base material     | Wanhua / Covestro / BASF / Lubrizol TPU                                                                                                |
| Thickness options | 6.5 mil / 7.5 mil / 8.5 mil                                                                                                            |
| Adhesive          | Ashland pressure-sensitive adhesive; designated adhesive available                                                                     |
| Surface / coating | Hydrophobic / hydrophilic / anti-fouling / anti-hydrolysis / self-healing coating                                                      |
| Finish options    | High gloss clear / matte clear / satin clear                                                                                           |
| Core advantages   | high clarity, gloss enhancement, yellowing resistance, stain resistance, anti-hydrolysis, self-healing, flexible fit on complex curves |
| Applications      | car paintwork, motorcycle tanks, bicycle frames, door cups, door edges, trunk anti-scratch areas                                       |
| Customization     | thickness, size, base material, adhesive, coating, OEM / ODM, regional climate solution                                                |

## B) Matte TPU Paint Protection Film



|                   |                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Standard size     | 1.52 m × 15 m; jumbo roll available                                                                                                    |
| Base material     | Wanhua / Covestro / BASF / Lubrizol TPU                                                                                                |
| Thickness options | 6.5 mil / 7.5 mil / 8.5 mil                                                                                                            |
| Adhesive          | Ashland pressure-sensitive adhesive; designated adhesive available                                                                     |
| Surface / coating | Hydrophobic / hydrophilic / anti-fouling / anti-hydrolysis / self-healing coating                                                      |
| Finish options    | High gloss clear / matte clear / satin clear                                                                                           |
| Core advantages   | high clarity, gloss enhancement, yellowing resistance, stain resistance, anti-hydrolysis, self-healing, flexible fit on complex curves |
| Applications      | car paintwork, motorcycle tanks, bicycle frames, door cups, door edges, trunk anti-scratch areas                                       |
| Customization     | thickness, size, base material, adhesive, coating, OEM / ODM, regional climate solution                                                |

## Recommended Grade Strategy



### 6.5 mil Entry Protection

Cost-effective protection for daily driving and light impact resistance.



### 7.5 mil Balanced Mainstream

Optimal balance of clarity, durability and self-healing performance.



### 8.5 mil Premium Heavy-Duty

Maximum durability and impact resistance for premium vehicles and high-stress conditions.

# TPU COLOR PROTECTION SOLUTIONS

Color Change and Paint Protection in One

KAVRON TPU Color PPF combines vibrant color films with advanced TPU technology to deliver exceptional protection and stunning aesthetics.



Gloss White    Matte Grey    Satin Blue    Metallic Red    Pearl White    Laser Silver    Chameleon Purple    Chameleon Green    Candy Blue    Candy Red

| Product name              | TPU Color PPF                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard size             | 1.52 m × 15 m; jumbo roll available                                                                                                                           |
| Base material             | multi-layer co-extruded TPU                                                                                                                                   |
| Adhesive                  | Ashland pressure-sensitive adhesive; designated adhesive available                                                                                            |
| Surface / coating         | anti-stain, anti-yellowing, anti-hydrolysis, self-healing, weather-resistant coating                                                                          |
| Finish and effect options | gloss, matte, satin, metallic, pearl, laser, chameleon and candy colors                                                                                       |
| Core advantages           | two benefits in one: color styling plus surface protection; stable color; resistant to delamination and fading; premium appearance for high-end customization |
| Applications              | full vehicle color change, motorcycle color restyling, premium custom projects                                                                                |
| Customization             | color, thickness, size, adhesive, coating, OEM / ODM                                                                                                          |

## Why Choose TPU Color PPF



### Protection + Styling

Deliver advanced protection while transforming vehicle appearance.



### Premium Finish

Rich colors and special effects for a head-turning, high-end look.



### Stable Multi-Layer Structure

Engineered TPU construction ensures dimensional stability and long-term performance.



### Suitable for High-End Markets

Designed for professionals and brands targeting premium customization markets.

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# LIGHT PROTECTION FILM SOLUTIONS

TPU Premium Option and TPH Value Option



**A**

## TPU Light Protection Film

|                                                                                     |               |                                                                                                                           |
|-------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------|
|  | Standard size | 0.3 m x 15 m                                                                                                              |
|  | Base material | Covestro TPU                                                                                                              |
|  | Adhesive      | Ashland pressure-sensitive adhesive                                                                                       |
|  | Surface       | anti-yellowing, heat-resistant, stone-chip resistant, low residue                                                         |
|  | Color options | dark black, light gray, light black, smoked black, clear, yellow fog light film                                           |
|  | Advantages    | does not damage lamp covers, easy stretch, impact resistance, yellowing resistance, suitable for premium light protection |
|  | Applications  | car headlights, taillights, fog lamps, motorcycle lamps                                                                   |
|  | Customization | color, width, thickness, adhesive                                                                                         |

**B**

## TPH Light Tint Film

|                                                                                       |               |                                                                                        |
|---------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------|
|  | Standard size | 0.3 m x 15 m                                                                           |
|  | Base material | high-toughness domestic TPH                                                            |
|  | Adhesive      | domestic pressure-sensitive adhesive; Ashland upgrade available                        |
|  | Surface       | basic weather resistance, easy installation                                            |
|  | Color options | clear, light black, dark black, tea, yellow, blue, multicolor, smoked series           |
|  | Advantages    | rich colors, easy installation, attractive cost, suitable for wholesale and e-commerce |
|  | Applications  | taillight smoke tint, fog light restyling, motorcycle lamp decoration                  |
|  | Customization | color, specification, adhesive upgrade                                                 |



**TPU =**  
premium protection



**TPH =**  
volume-friendly styling



# GRAPHIC AND ADVERTISING FILM SOLUTIONS

Decal, Printable Wrap and Overlamination Systems



## 1 Automotive Decal Film / Plotter Vinyl

|                 |                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------|
| Standard size   | 1.22 m x 50 m                                                                                        |
| Material        | polymeric calendared PVC; cast-grade upgrade available                                               |
| Adhesive        | solvent-based pressure-sensitive adhesive                                                            |
| Surface         | 3 to 5 year outdoor durability depending on color and environment                                    |
| Color range     | standard colors, laser, chameleon, fluorescent, metallic and matching wrap colors                    |
| Core advantages | vivid colors, smooth cutting, easy weeding, reduced edge lifting, reduced fading, lower residue risk |
| Applications    | car stripes, fleet graphics, motorcycle decals, bicycle decals, advertising signs                    |
| Customization   | color, adhesive, liner, OEM branding                                                                 |



## 2 Printable Vehicle Wrap Film

|                 |                                                                                       |
|-----------------|---------------------------------------------------------------------------------------|
| Standard size   | 1.52 m x 50 m                                                                         |
| Material        | polymeric printable PVC                                                               |
| Adhesive        | 140 g gray adhesive with small-diamond air-release channels                           |
| Surface         | for solvent, eco-solvent, latex and UV printing; should be paired with overlamination |
| Core advantages | strong opacity, fast bubble release, suitable for large vehicle advertising graphics  |
| Applications    | commercial fleet graphics, brand promotion vehicles, trucks, motorcycles              |
| Customization   | adhesive, liner, air-release structure, print compatibility                           |



## 3 Polymeric Overlamination Film

|                 |                                                                               |
|-----------------|-------------------------------------------------------------------------------|
| Standard size   | paired with printable wrap film                                               |
| Material        | clear polymeric PVC                                                           |
| Adhesive        | clear pressure-sensitive adhesive                                             |
| Finish          | gloss or matte; UV, scratch and stain resistance                              |
| Core advantages | improves outdoor durability and reduces fading, scratching and edge shrinkage |
| Applications    | vehicle graphics, fleet wraps, outdoor graphic protection                     |
| Customization   | surface, thickness, adhesive, size                                            |



**System Solution:**  
printable film + overlamination film

# DECORATIVE CARBON FIBER SOLUTIONS

Premium TPU Texture and  
Cost-Effective PVC Texture



## A. TPU Carbon Fiber Wrap Film

VS

## B. PVC Carbon Fiber Vinyl Film

|                                                                                                     |                                                                                                                                        |                                                                                  |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|  Standard format | customizable; recommended heating time around 14 s                                                                                     | customizable; recommended heating time around 13 s to 16 s                       |
|  Material        | high-elastic TPU                                                                                                                       | polymeric PVC                                                                    |
|  Adhesive        | customizable                                                                                                                           | pressure-sensitive adhesive                                                      |
|  Surface / liner | PET ultra-matte liner; normally without air-release channels, light air-release structure can be developed                             | 160 g paper liner or PET ultra-matte liner; small-diamond air-release channels   |
|  Effects         | gloss black or matte black; 3D / 6D texture                                                                                            | black, colored and rainbow laser; 3D / 4D / 5D / 6D texture                      |
|  Advantages      | premium tactile appearance, good elasticity, yellowing resistance, scratch resistance, better weathering than ordinary PVC carbon film | rich color range, multiple textures, cost-effective for wholesale and e-commerce |
|  Applications    | hood, roof, mirror caps, motorcycle tanks, bicycle frames, interior and exterior trim parts                                            | mirror caps, roof, hood, motorcycle shells, bicycle decoration                   |
|  Customization   | texture, thickness, surface effect, adhesive                                                                                           | color, liner, texture, adhesive                                                  |

### Recommended Positioning



**TPU**

for premium decorative protection












**PVC**

for high-SKU volume business







# APPLICATION SOLUTION GUIDE

## Recommended Product Matching by Use Scenario

| Use Scenario                                                                                                                        | Recommended Products                                                    | Recommended Configuration                                | Suitable Customers                                            | Remark                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|
| <b>1</b><br> <b>Full Vehicle Paint Protection</b> | TPU PPF /<br>Matte TPU PPF                                              | 7.5 mil mainstream;<br>8.5 mil premium                   | film shops, luxury<br>car shops, overseas<br>distributors     | material hardness<br>and coating can be<br>adjusted by climate. |
| <b>2</b><br> <b>Full Vehicle Color Change</b>    | TPU Color PPF /<br>Color PPF /<br>PVC color wrap                        | TPU Color PPF<br>for premium market                      | modification shops,<br>high-end car owners,<br>brand clients  | highlight color change<br>plus protection in one.               |
| <b>3</b><br> <b>Vehicle Light Protection</b>     | TPU Light<br>Protection Film /<br>TPH Light Tint Film                   | TPU premium;<br>TPH volume                               | car modification shops,<br>e-commerce buyers                  | available in smoked,<br>light smoke and<br>yellow options.      |
| <b>4</b><br> <b>Commercial Fleet Graphics</b>    | Printable Vehicle<br>Wrap Film plus<br>Polymeric<br>Overlamination Film | overlamination<br>required                               | advertising companies,<br>fleets, brand<br>promotion vehicles | improves durability<br>and scratch<br>resistance.               |
| <b>6</b><br> <b>Local Decorative Styling</b>     | Carbon film, decal film,<br>laser film, chameleon film                  | PVC for volume;<br>TPU for premium                       | e-commerce<br>customers,<br>modification shops                | suitable for hood,<br>roof and mirror caps.                     |
| <b>7</b><br> <b>Windshield Protection</b>        | windshield protection<br>film / glass armor                             | high clarity, low haze,<br>abrasion-resistant<br>coating | luxury vehicles,<br>off-road vehicles,<br>operating fleets    | avoid absolute<br>anti-crack claims.                            |
| <b>8</b><br> <b>Solar Control</b>                | automotive window film /<br>nano ceramic film /<br>sputtered film       | matched by VLT<br>and local regulation                   | accessory shops,<br>film shops                                | front windshield VLT<br>regulations vary<br>by country.         |
| <b>8</b><br> <b>Motorcycle Tank Protection</b>   | TPU PPF /<br>TPU carbon film /<br>decal film                            | kit or roll format                                       | motorcycle<br>modification shops,<br>racing teams             | tank and side<br>panels are<br>key areas.                       |
| <b>9</b><br> <b>Motorcycle Lamp Protection</b>   | TPU Light<br>Protection Film /<br>TPH Light Tint Film                   | TPU premium;<br>TPH e-commerce<br>volume                 | motorcycle accessory<br>stores, e-commerce<br>buyers          | suitable for headlight,<br>tail light and<br>turn signals.      |

## CLIMATE CUSTOMIZATION AND CONTACT

### Market-Based Solution Tuning

| Market Region                                                                                                               | Climate Features                                           | Recommended Solution                                                 | Product Adjustment                                                                    | Sales Message                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|  Middle East / Africa                      | high temperature, strong UV, stone-chip exposure           | 8.5 mil TPU PPF / TPU Color PPF / windshield protection film         | slightly harder film body, improved heat, UV and stone-chip resistance                | stable protection for hot and high-sunlight environments.                      |
|  Southeast Asia                           | high temperature, high humidity, long rainy season         | anti-hydrolysis TPU PPF / TPU light film / automotive window film    | enhanced anti-hydrolysis, anti-stain and hydrophobic performance                      | suitable for humid and rainy environments with reduced haze and residue risks. |
|  South America                           | high temperature, sunlight and mixed rain conditions       | TPU PPF / TPU Color PPF / printable vehicle wrap film                | better weatherability, yellowing resistance and color stability                       | balanced appearance and outdoor durability.                                    |
|  Nordic / Russia / Canada                | low temperature, snow and cold installation conditions     | low-temperature flexible TPU PPF / low-temperature adhesive version  | softer film body and improved low-temperature installation performance                | optimized flexibility for cold climate application.                            |
|  Europe and North America Premium Market | high quality requirements and brand stability expectations | high-end material series based on Covestro / Lubrizol / BASF         | emphasize high-clarity, low orange peel, yellowing resistance and stable installation | suitable for high-end shops and brand customers.                               |
|  E-commerce and Wholesale Market         | price-sensitive, many colors, fast SKU turnover            | TPH Light Tint Film / PVC Carbon Film / Decal Film / Reflective Film | broader SKU range and lower cost per roll                                             | color-rich, specification-complete and suitable for fast-moving business.      |

### Example SKU Codes



PPF-CLR-65



PPF-CLR-75



PPF-CLR-85



PPF-MAT-75



CPPF-001



LIGHT-TPU-001



LIGHT-TPH-001



DECAL-5Y-001



PRINT-WRAP-001

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