PAINT PROTECTION FILMS & SOLAR CONTROL WINDOW FILMS



www.FlexiShield.com

AUTOMOTIVE
PRODUCT PORTFOLIO
October 2025

A brand of:



US Manufacturing - Since 2003

Designed, developed, produced, and tested under the blazing Arizona sun.



ABOUT REFLEK TECHNOLOGIES CORPORATION

The proud manufacturer behind the FlexiShield brand, Reflek Technologies Corporation is a major global manufacturer, marketer, and distributor of high-performance finishes and coatings for the construction and transportation industries. We are also the largest privately-owned film manufacturer in the United States, with yearly revenue in excess of \$60 million USD from our global PPF and Window Film operations alone.

Our product portfolio is centered on integrated climatic technologies such as solar control window films, DC vacuum sputtering and specialized precision coatings, photovoltaics, and flexible circuit applications. A strong research and development team is at the core of our technology-lead organization. This combines with our own state-of-the-art manufacturing facilities, exclusive production processes, a well-established direct global distribution network, and a dynamic corporate structure to create a solid, world-class technology firm.









Integrated world-class manufacturing and marketing:

At Reflek, we make a continuous effort to set the highest quality standards in the industry, while providing a unique, personalized customer service and support experience.

Our origins as a high-tech laboratory, and a long history of production and direct market engagement, have turned us into much more than a simple manufacturer, marketer, or retailer. We have dedicated decades to vertically and horizontally integrating most processes - from raw material sourcing, through manufacturing and logistics, and down to end-customer

engagement and marketing. And more is yet to come!

This allows us to carefully tailor and supervise every step of our operations, to ensure the quality and consistency that our customers expect from the highest-grade coatings.

Reflek's core design and engineering team has over 50 years of combined experience producing simple, effective, and reliable solutions which adhere to the ever-increasing requirements of our most demanding users, while staying at the forefront of the global R&D race.

Reflek's 100% in-house design, development, testing, & manufacturing:

Reflek is one of only two US-based coatings manufacturers awarded with the ISO 9001 quality standard for quality management systems. This ISO 9001 standard certifies us as both a world-class manufacturer and a global distributor of our product lines.

In addition, Reflek and its brands are certified members of various specialized trade organisations,

voluntary quality control auditing bodies, and industry councils in the US and abroad. Through its regional direct distribution offices, Reflek ensures that its cutting edge technologies reach local markets around the world, while aligning with local commercial, governance, and performance standards.

Reflek has been attending the SEMA show, in Las Vegas, with ever larger and more exciting booths, since 2012.











In-house research and development Accelerated weathering testing

At least one year of field testing Ongoing evaluation and update

ISO Certified
as both
Manufacturer &
Distributor

Reflek's owned and operated global factory-direct Distribution Offices:



- Full inventory of all Reflek products, brands, and private label resources. Weekly inventory shipments from Reflek factories.
- Full-time Sales and Technical staff available, speaking local languages and familiar with regional business culture.
- Factory-direct pricing and customer support to dozens of countries worldwide. With no intermediaries.
- Close relation with and supervision of - regional partners and distributors.













SGS







Flexishield Clear Paint & Surface Protection Films

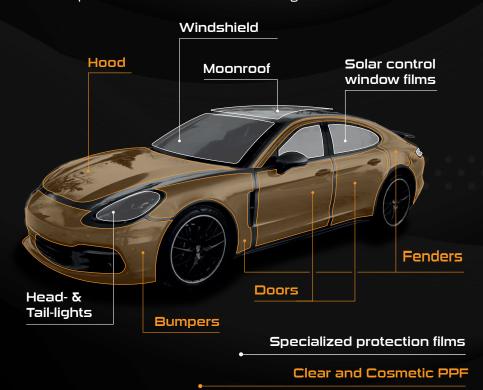
About FlexiShield

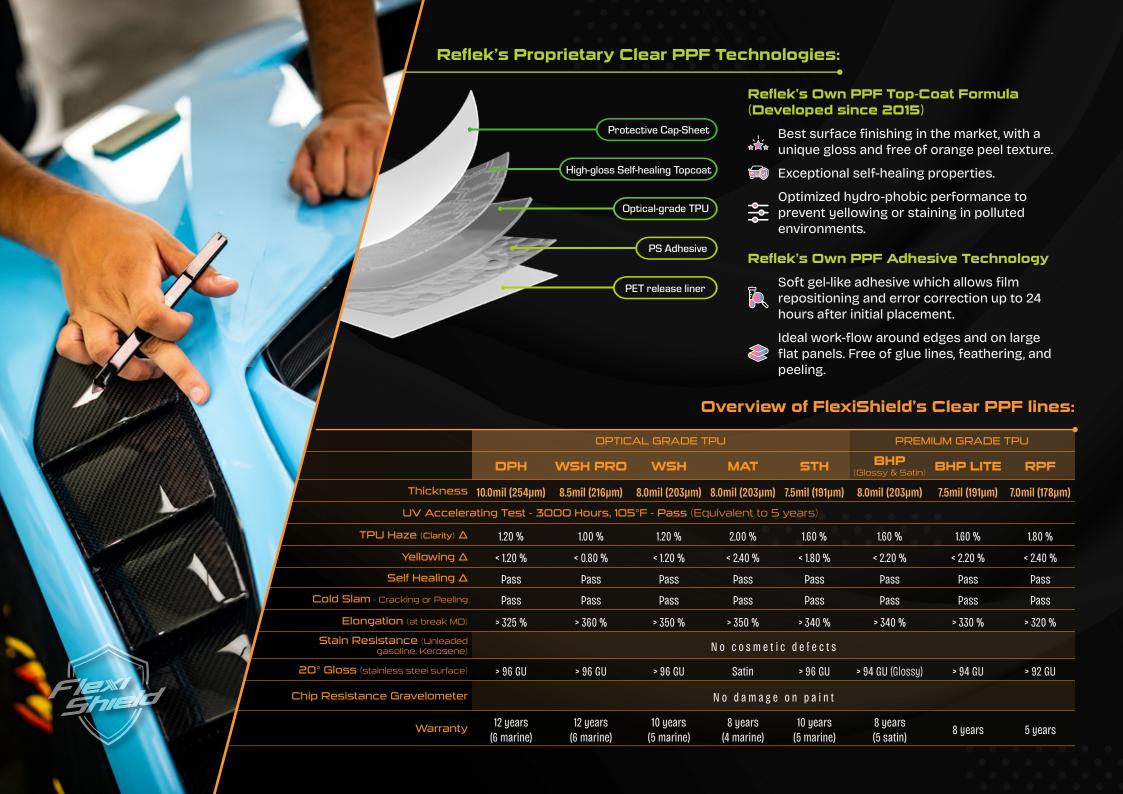
FlexiShield, trademarked in 2014, is Reflek's brand of Paint Protection Films and Solar Control Window Films for automotive, marine, and architectural applications. All FlexiShield products are manufactured at our own state-of-the-art facility in Phoenix, Arizona, USA, produced out of US-made raw materials, thoroughly developed under strict lab conditions, and field-tested under the harsh Arizona sun.

What is Paint Protection Film?

Paint protection film (PPF) provides critical exterior protection from harsh weather, staining, and exposure to extreme road conditions. Its TPU material is exceptionally tough and durable, and possesses a "self-healing" property that allows it to return to its original shape if scratched or distressed.

Because of its superior technology and in-house manufacturing FlexiShield is the ultimate choice in PPF, and remains the established preference for the most demanding car owners and installers.







FlexiShield's solution for off-road vehicles and supercars

The pinnacle of automotive defense: FlexiShield's 10.0mil (254µ) Paint Protection Film (PPF) is engineered to safeguard supercars and high-performance vehicles against the harshest road (and off-road) conditions, protecting your high-value investment while allowing you to drive it as it was meant to be driven.

Beyond its protective prowess, this 10.0mil PPF maintains optical clarity, preserving the aesthetic appeal of your vehicle's paintwork. Its advanced self-healing properties effortlessly erase minor abrasions, ensuring a flawless surface at all times. With enhanced UV resistance, this film safeguards against yellowing, fading, and discoloration. Whether navigating city streets or conquering off-road trails, this armor-like film offers peace of mind to enthusiasts and professionals alike.



Purpose-engineered, heavy-duty protection.



Premium-grade TPU, invulnerable to yellowing, fading, and cracking.



Flexible construction, adaptable to complex geometry despite its thickness.

10.0mil (254µ) TPU Glossy reinforced 12-year warranty

DPH SPECIFICATIONS

Total Thickness	10.0 mil (254 μ)*	205
Top Coat	0.5 mil (13 μ)	PCE
Polyurethane Film	8.5 mil (216 μ)*	Thickness
Adhesive	1.0 mil (25 μ)	Gauge

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

TPU Haze (Clarity) Δ	1.20 %	ASTM D1003-1 Original 0.8
Yellowing Δ	< 1.20 %	ASTM D1925-70
Self Healing Δ	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	TPJLR.52.055
Elongation (at break MD)	>325 %	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	Lab Testing
20° Gloss (stainless steel surface)	>96 GU	Gloss Meter 20°
Chip Resistance Gravelometer	No damage on paint	ASTM D3170

	449.0 N/m	41 oz/in	20 minutes at room temperature
Peel Adhesion	481.0 N/m	44 oz/in	24 hours at room temperature
180 Degree Peel	514.0 N/m	47 oz/in	1 week at room temperature
1.0 mil coating	689.0 N/m	63 oz/in	1 week at 160°F/70°C
Paint Surface	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH

FlexiShield's top line clear Paint Protection Film

At 8.5mil (216µ) thickness, WSH Pro is one of the thickest PPF's on the market. Its hyper-glossy surface finishing will satisfy the wishes of the most demanding customers, while its well-balanced adhesive and precisely-engineered flexibility facilitates the perfect install each and every time.

FlexiShield Paint Protection products are self-healing and heat curable because of a flexible component in the thermoplastic polyurethane (TPU) film. WSH Pro is thicker than its standard counterpart, offering an industrious enhancement to the incredible protection you can already expect from FlexiShield's diverse product array.



Unparalleled top-coat gloss.



Perfectly-balanced adhesive and film flexibility.



Premium thickness and transparency.

8.5mil (216µ) TPU Hyper-glossy 12-year warranty

WSHPRO SPECIFICATIONS

Total Thickness	8.5 mil (216 μ)*	205
Top Coat	0.5 mil (13 μ)	PCE
Polyurethane Film	7.0 mil (178 μ)*	Thickness
Adhesive	1.0 mil (25 μ)	Gauge

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

TPU Haze (Clarity) Δ	1.00 %	ASTM E1003-1 Original 0.8
Yellowing Δ	< 0.80 %	ASTM D1925-70
Self Healing Δ	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	TPJLR.52.055
Elongation (at break MD)	>360 %	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	Lab Testing
20° Gloss (stainless steel surface)	>96 GU	Gloss Meter 20°
Chip Resistance Gravelometer	No damage on paint	ASTM D3170

	449.0 N/m	41 oz/in	20 minutes at room temperature
Peel Adhesion	481.0 N/m	44 oz/in	24 hours at room temperature
180 Degree Peel	514.0 N/m	47 oz/in	1 week at room temperature
1.0 mil coating	689.0 N/m	63 oz/in	1 week at 160°F/70°C
Paint Surface	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH

Protect your investment with FlexiShield WSH

FlexiShield's 8.0mil (203µ) thick WSH PPF is engineered to provide all-around surface protection for high-value cars, yachts, architectural interiors, and many other personal and commercial assets. FlexiShield WSH has been formulated for optimum self-healing performance, durability, and versatility of installation.

With a decade of field testing under all weather conditions - from the scorching Arizona desert to the frozen fjords of Norway - FlexiShield WSH remains the go-to option for the most discerning PPF installers.



Well-balanced, allaround protection.



Optimum thickness and flexibility for the broadest versatility of installation.



Over one decade of field testing.

8.0mil (203µ) High-gloss 10-year warranty

WSH SPECIFICATIONS

Total Thickness	8.0 mil (203 μ)*	205
Top Coat	0.5 mil (13 μ)	PCE
Polyurethane Film	6.5 mil (165 μ)*	Thickness
Adhesive	1.0 mil (25 μ)	Gauge

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

TPU Haze (Clarity) Δ	1.20 %	ASTM D1003-1 Original 0.8
Yellowing Δ	< 1.20 %	ASTM D1925-70
Self Healing Δ	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	TPJLR.52.055
Elongation (at break MD)	>350%	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	Lab Testing
20° Gloss (stainless steel surface)	>96 GU	Gloss Meter 20°
Chip Resistance Gravelometer	No damage on paint	ASTM D3170

	449.0 N/m	41 oz/in	20 minutes at room temperature
Peel Adhesion	481.0 N/m	44 oz/in	24 hours at room temperature
180 Degree Peel	514.0 N/m	47 oz/in	1 week at room temperature
1.0 mil coating	689.0 N/m	63 oz/in	1 week at 160°F/70°C
Paint Surface	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH



FlexiShield MAT's elegant satin look

FlexiShield's MAT PPF provides 8.0mil (203µ) of paint protection and an understated, muted look to a vehicle's finish. MAT film also enjoys the same self-healing top-coat and chemical properties as its glossy FlexiShield counterparts.

To self-heal, a combination of hard and soft co-polymers react to rebind and retain their surface finish. With FlexiShield MAT you can enjoy a smooth, satin overlay that highlights your vehicle's geometry, and brings out a new quality to any painted or textured surface.



Deep satin look which enhances the car's lines.



Full TPU protection and self-healing.



Lab- and field-tested under the harshest conditions.

8.0mil (203µ) TPU **Satin** 8-year warranty

MAT SPECIFICATIONS

Total Thickness	8.0 mil (203 μ)*	205
Top Coat	0.5 mil (13 μ)	PCE
Polyurethane Film	6.5 mil (165 μ)*	Thickness
Adhesive	1.0 mil (25 μ)	Gauge

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

TPU Haze (Clarity) Δ	2.00 %	ASTM D1003-1 Original 0.8
Yellowing Δ	< 2.40 %	ASTM D1925-70
Self Healing Δ	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	TPJLR.52.055
Elongation (at break MD)	>350 %	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	Lab Testing
20° Gloss (stainless steel surface)	Satin	Gloss Meter 20°
Chip Resistance Gravelometer	No damage on paint	ASTM D3170

	449.0 N/m	41 oz/in	20 minutes at room temperature
Peel Adhesion	481.0 N/m	44 oz/in	24 hours at room temperature
180 Degree Peel	514.0 N/m	47 oz/in	1 week at room temperature
1.0 mil coating	689.0 N/m	63 oz/in	1 week at 160°F/70°C
Paint Surface	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH





FlexiShield's mass-market PPF solution

Because premium protection doesn't need to come at a high price, FlexiShield's STH PPF is a 7.5mil (191 μ) thick film engineered and tested for ease of installation and an optimum price-to-performance value on standard vehicles, vessels, and furniture.

With a 10-year warranty on automotive applications, FlexiShield STH will protect private and commercial vehicles throughout their entire expected service-life. It is invulnerable to yellowing, fading, and cracking, and will retain its self-healing properties and gloss in all weather and road conditions.



High-grade film at a competitive price.



Same top-coat and base-coat materials as our top lines.



Great protection and gloss.

7.5mil (191µ) TPU Glossy 10-year warranty

STH SPECIFICATIONS

Total Thickness	7.5 mil (191 μ)*	207
Top Coat	0.5 mil (13 μ)	PCE
Polyurethane Film	6.0 mil (153 μ)*	Thickness
Adhesive	1.0 mil (25 µ)	Gauge

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

TPU Haze (Clarity) Δ	1.60 %	ASTM D1003-1 Original 0.8
Yellowing Δ	< 1.80 %	ASTM D1925-70
Self Healing Δ	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	TPJLR.52.055
Elongation (at break MD)	>340 %	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	Lab Testing
20° Gloss (stainless steel surface)	>96 GU	Gloss Meter 20°
Chip Resistance Gravelometer	No damage on paint	ASTM D3170

	449.0 N/m	41 oz/in	20 minutes at room temperature
Peel Adhesion	481.0 N/m	44 oz/in	24 hours at room temperature
180 Degree Peel	514.0 N/m	47 oz/in	1 week at room temperature
1.0 mil coating	689.0 N/m	63 oz/in	1 week at 160°F/70°C
Paint Surface	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH

FlexiShield's Basic Hazard Protection

Because every vehicle deserves protection, FlexiShield has developed its new BHP PPF. Featuring FlexiShield's exceptional top-coat and adhesive, on a more commercial-level TPU base-layer than our STH, WSH, WSHPro, and DPH lines. FlexiShield BHP is our answer to provide excellent protection for all everyday cars, utility vehicles, and commercial fleets.

FlexiShield BHP is an 8.0mil (203µ) thick film which features a dense top-coat for a harder surface, and a better stain and damage resistance. This film can take a beating and still be restored with its built-in thermal self-healing properties.



Engineered for heavyduty, working vehicles, and commercial fleets.



Built with materials selected for their optimum price-toperformance value.



Flexible and easy to install for an enhanced shop workflow.

8.0mil (203µ) TPU Glossy/Satin Imported Base TPU 8-year warranty

BHP SPECIFICATIONS (GLOSSY & SATIN)

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Total Thickness	8.0 mil (203 μ)*	205
Top Coat	0.5 mil (13 μ)	PCE
Polyurethane Film	6.5 mil (165 μ)*	Thickness
Adhesive	1.0 mil (25 μ)	Gauge

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

TPU Haze (Clarity) Δ	1.60 %	ASTM D1003-1 Original 0.8
Yellowing Δ	< 2.20 %	ASTM D1925-70
Self Healing Δ	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	TPJLR.52.055
Elongation (at break MD)	>340 %	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	Lab Testing
20° Gloss (stainless steel surface)	>94 GU	Gloss Meter 20°
Chip Resistance Gravelometer	No damage on paint	ASTM D3170

	449.0 N/m	41 oz/in	20 minutes at room temperature
Peel Adhesion	481.0 N/m	44 oz/in	24 hours at room temperature
180 Degree Peel	514.0 N/m	47 oz/in	1 week at room temperature
1.0 mil coating	689.0 N/m	63 oz/in	1 week at 160°F/70°C
Paint Surface	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH

BHP Lite: Smart Protection for Hardworking Fleets

FlexiShield's BHP Lite Paint Protection Film is a cost-effective 7.5mil (191µ) TPU-based solution engineered for commercial vehicles and fleet operations. Designed to strike the perfect balance between performance and affordability, BHP Lite offers essential surface protection against road debris, scratches, and weathering without the high price tag typically associated with premium PPF products. Its robust, self-healing topcoat restores minor damage with heat exposure, preserving the vehicle's finish and extending its professional appearance over time.

BHP Lite is ideal for delivery vans, service vehicles, and utility fleets that experience frequent use and harsh driving conditions. Its simplified structure allows for faster, more efficient installations, reducing labor time and shop costs. While it may not carry all the advanced features of high-end films, BHP Lite maintains core performance attributes that ensure dependable protection and durability. For businesses looking to maximize vehicle uptime and minimize maintenance costs, BHP Lite is the smart, scalable choice.



7.5mil TPU construction delivers essential protection without the premium price.



Ideal for commercial vehicles exposed to high mileage and tough conditions



Fast, Efficient Installation - Simplified structure reduces downtime and labor costs.

7.5mil (191µ) TPU Glossy Imported Base TPU 8-year warranty

BHP-LITE SPECIFICATIONS

Total Thickness	7.5 mil (191 µ)*	505
Top Coat	0.5 mil (13 μ)	PCE Thickness
Polyurethane Film	6.0 mil (153 μ)*	
Adhesive	1.0 mil (25 μ)	Gauge

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

TPU Haze (Clarity) Δ	1.60 %	ASTM D1003-1 Original 0.8
Yellowing Δ	< 2.20 %	ASTM D1925-70
Self Healing Δ	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	TPJLR.52.055
Elongation (at break MD)	>330 %	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	Lab Testing
20° Gloss (stainless steel surface)	>94 GU	Gloss Meter 20°
Chip Resistance Gravelometer	No damage on paint	ASTM D3170

	449.0 N/m	41 oz/in	20 minutes at room temperature
Peel Adhesion	481.0 N/m	44 oz/in	24 hours at room temperature
180 Degree Peel	514.0 N/m	47 oz/in	1 week at room temperature
1.0 mil coating	689.0 N/m	63 oz/in	1 week at 160°F/70°C
Paint Surface	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH

FlexiShield Racing Protection Film

FlexiShield Racing Protection Film is a high-performance 7.0mil (178µ) protection film designed to protect your car's paintwork during high-speed events such as track days, races, or off-road adventures. Made from durable thermoplastic polyurethane, this film provides exceptional resistance against rock fragments, road debris, and scratches, while maintaining the appearance of the vehicle. FlexiShield Protective Film is designed to be temporary and easy to remove without leaving residue or causing any damage to the underlying paintwork. Its unique adhesive formula ensures a secure fit in extreme conditions, and can be removed quickly and easily once the event is over.

This is the perfect solution for performance enthusiasts who want to protect their cars without the need for permanent installations. Whether you're into track racing, cone racing, or high-performance driving, FlexiShield Protective Film provides reliable protection while keeping your car looking its best.



Drive your sports car as it was designed to be driven.



Powerful protection against track and offroad hazards.



Designed for quick installation, quick and clean replacement.

7.0mil (178µ) TPU Glossy Imported Base TPU 5-year warranty

RPF SPECIFICATIONS

Total Thickness	7.0 mil (178 μ)*	. DOE
Top Coat	0.5 mil (13 μ)	PCE
Polyurethane Film	5.5 mil (140 μ)*	Thickness
Adhesive	1.0 mil (25 μ)	Gauge

UV Accelerating Test - 3000 Hours, $105^{\circ}F$ - Pass (Equivalent to 5 years)

TPU Haze (Clarity) Δ	1.80 %	ASTM D1003-1 Original 0.8
Yellowing Δ	< 2.40 %	ASTM D1925-70
Self Healing Δ	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	TPJLR.52.055
Elongation (at break MD)	>320 %	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	Lab Testing
20° Gloss (stainless steel surface)	>92 GU	Gloss Meter 20°
Chip Resistance Gravelometer	No damage on paint	ASTM D3170

	449.0 N/m	41 oz/in	20 minutes at room temperature
Peel Adhesion	481.0 N/m	44 oz/in	24 hours at room temperature
180 Degree Peel	514.0 N/m	47 oz/in	1 week at room temperature
1.0 mil coating	689.0 N/m	63 oz/in	1 week at 160°F/70°C
Paint Surface	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH
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Protecting your windshield from the road

DFR Pro is FlexiShield's newly-released, 100% TPU windshield protection film. At 5.0mil (128µ) thickness, and produced with an extra-hard topcoat entirely free of orange peel, FlexiShield DFR Pro is the most optically transparent, hydrophobic, and easy-to-install windshield protection film on the market *.

FlexiShield's DFR Pro is available in standard and Lite transparency levels. Standard DFR Pro is recommended for high performance cars, while DFR Pro Lite will provide full protection and incredible transparency for all standard and commercial vehicles.

* For best results, a PPF-dedicated ceramic coating must be applied to the film after installation, and thereafter every 6 months.



Exceptional transparency and surface finishing.



Easy installation in under 10 minutes.



100% optical-grade TPU.

5.0mil (128µ) TPU Optical 12-month warranty

DFRPRO SPECIFICATIONS

Total Thickness	5.0 mil (128 μ)	D0E	
Top Coat	0.5 mil (13 μ)	PCE Thickness	
Polyurethane Film	4.0 mil (102 μ)		
Adhesive	0.5 mil (13 μ)	Gauge	

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

	DFR Pro	DFR Pro Lite	
TPU Haze (Clarity) Δ	0.8%	1.4%	ASTM E1003-1 Original 0.8
Yellowing Δ	<0.9%	<0.9%	ASTM D1925-70
Self Healing Δ	Pass	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	Pass	TPJLR.52.055
Elongation (at break MD)	>275%	>260%	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	No cosmetic defects	Lab Testing
Surface Hardness	6Н	6H	ASTM D3363
Chip Resistance Gravelometer	No Penetration	No Penetration	ASTM D3170

	149.0 N/m	14 oz/in	20 minutes at room temperature
Peel Adhesion	160.0 N/m	15 oz/in	24 hours at room temperature
180 Degree Peel	171.0 N/m	16 oz/in	1 week at room temperature
1.0 mil coating	230.0 N/m	21 oz/in	1 week at 160°F/70°C
Paint Surface	255.0 N/m	23 oz/in	1 week at 95°F/ 35°C, 95% RH

Protecting your moonroof from heat and impact

FlexiShield MRP is the ultimate thermoplastic polyurethane (TPU) film designed specifically for moonroofs. At 7.0mil (178µ) thickness and engineered with an ultraclear, extra-hard topcoat free of orange peel, MRP delivers outstanding optical clarity, superior durability, and hydrophobic performance.

Available in VLT 70, 35, and 20, FlexiShield MRP gives you the choice between maximum natural light, balanced shading, or strong solar rejection, without compromising visibility. It reduces solar glare and heat, blocks harmful UV rays, and reinforces the moonroof against shattering on impact, making every drive safer and more comfortable.



Shatter Safety

Holds glass together in case of impact, reducing the risk of dangerous shards.



UV & IR Block

Cuts harmful UV rays and minimizes heat build-up for a cooler, more comfortable cabin.



Glare Reduction

Enhances driving visibility by reducing harsh sunlight entering through the moonroof.



Optically Clear Finish

Maintains crystal-clear visibility with no distortion or haze.

7.0mil (178µ) TPU VLT's 70, 35 & 20 3-year warranty

MRP SPECIFICATIONS

Total Thickness	7.0 mil (178 μ)	PCE Thickness
Top Coat	0.5 mil (13 μ)	
Polyurethane Film	6.0 mil (152 μ)	
Adhesive	0.5 mil (13 μ)	Gauge

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

	MRP-70 IR Film Ceramic	MRP-35 Sputtered Stainless Steel	MRP-20 Sputtered Stainless Steel	
TPU Haze (Clarity) Δ	0.8%	1.4%	1.4%	ASTM E1003-1 Original 0.8
Yellowing Δ	<0.9%	<0.9%	<0.9%	ASTM D1925-70
Self Healing Δ	Pass	Pass	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	Pass	Pass	TPJLR.52.055
Elongation (at break MD)	>275%	>260%	>260%	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	No cosmetic defects	No cosmetic defects	Lab Testing
Surface Hardness	6Н	6H	6H	ASTM D3363
Chip Resistance Gravelometer	No Penetration	No Penetration	No Penetration	ASTM D3170
Visible Light Transmission (VLT)	70%	35%	20%	
Ultraviolet (UV) Protection	99%	99%	99%	Lab measurem

	149.0 N/m	14 oz/in	20 minutes at room temperature
Peel Adhesion	160.0 N/m	15 oz/in	24 hours at room temperature
180 Degree Peel	171.0 N/m	16 oz/in	1 week at room temperature
1.0 mil coating	230.0 N/m	21 oz/in	1 week at 160°F/70°C
Paint Surface	255.0 N/m	23 oz/in	1 week at 95°F/ 35°C, 95% RH

Infrared (IR) Rejection



Headlight performance meets luxury

FlexiShield's HDL headlight protection film provides a light, sporty shade to your head-and tail-lights, while minimally affecting their intensity, contrast, and color temperature. With a thickness of 6.5mil (165 μ), and a 100% TPU composition, FlexiShield HDL protects your lights from impact and scratch marks, while also virtually eliminating fading and yellowing caused by solar or chemical exposure.

Available in 35% and 50% Visible Light Transmittance (VLT), and featuring a warm gray tone, FlexiShield HDL adds the perfect combination between racing performance and luxury, providing the final aesthetic touch to your car, while protecting your lights from the hazards of the road.



Minimum light interference



Perfect match between elegance and performance



Protection from impact, scratching, and fading

6.5mil (165µ) TPU Light-transmitting 3-year warranty

HDL SPECIFICATIONS

Total Thickness	6.5 mil (165 μ)	207
Top Coat	0.5 mil (13 μ)	PCE
Polyurethane Film	5.0 mil (127 μ)	Thickness
Adhesive	1.0 mil (25 μ)	Gauge

UV Accelerating Test - 120°F - Pass

TPU Haze (Clarity) Δ after 3,000 hours	1.6%	ASTM D1003-1 Original 0.8
Yellowing Δ after 1.200 hours	<1.2%	ASTM D1925-70
Self Healing Δ after 3,000 hours	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	TPJLR.52.055
Elongation (at break MD)	>340%	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	Lab Testing
20° Gloss (stainless steel surface)	>96 GU	Gloss Meter 20°
Chip Resistance Gravelometer	No damage	ASTM D3170

	449.0 N/m	41 oz/in	20 minutes at room temperature
Peel Adhesion	481.0 N/m	44 oz/in	24 hours at room temperature
180 Degree Peel	514.0 N/m	47 oz/in	1 week at room temperature
1.0 mil coating	689.0 N/m	63 oz/in	1 week at 160°F/70°C
Paint Surface	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH

FlexiShield **Cosmetic Paint Protection Films**

Reflek's Unique Color PPF Technology:

Reflek's proprietary triple-layered color PPF technology redefines vehicle protection and aesthetics. This unique innovation features three precision-engineered layers that deliver exceptional durability, vibrant color depth, and self-healing capabilities.

PET Cap-Sheet

Self-healing Topcoat

Transparent TPU

Auto-paint resin TPU base film

Hybrid Adhesive

PET release liner

Integrated with advanced auto-paint resin, it seamlessly bonds with the vehicle surface, enhancing gloss and resistance to chips, scratches, and UV damage.

Unlike conventional paint protection films, Reflek's system offers a true paint-like finish with superior longevity, making it a game-changer in automotive surface enhancement and preservation.

Reflek's Triple-Layered TPU Resin-Integrating PPF

100% double-TPU-layered construction.

Embedded inter-layer auto-paint resin.

Unparalleled quality and depth of color for the most genuine factory-like finishing.

Unlimited color and finishing possibilities.

Higher UV protection against fading, due to superior TPU layer.

■ 8.5mil (216µm) total thickness.

Other Brand's Color PPFs

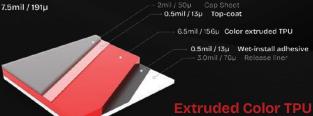
5.5-7.5mil / 140-191µ

3.0-5.0mil / 78-127µ Color PVC film

1.0mil / 25u Dry-install adhesive

Top-coated PVC

- Poor surface finishing.
- Color fading.
- No depth of color.
- Appearance of vinul wrap.
- Risk of delamination and weathering.



- Limited color range.
- No depth of color.
- Plastic-like appearance and feel.
 - Vulnerable to UV fading.

FlexiShield - The state-of-the-art in Color PPF

FlexiShield's breakthrough in dry-apply, auto-paint-resin-integrating, full-TPU Cosmetic PPF technology has rendered it the global leader in color-changing PPF for the most demanding customers. Ranging from 7.5 to 8.5mil (191-216µ) thicknesses, FlexiShield's Cosmetic PPF is currently available in nearly 100 unique and exclusive colors, both glossy and satin. From flat shades to high-metallic, pearlescent color-changing, and rainbow textures, there is a dream choice for everyone in FlexiShield's color catalogue.







FlexiShield - The state-of-the-art in Color PPF

FlexiShield Cosmetic Paint Protection products are made with 100% TPU, with an integrated welded layer of authentic auto-paint resin for the unmistakable color depth and shimmer of real car paint. FlexiShield's Cosmetic PPF features the same premium TPU top-coat as our clear PPF's, and provides the same unparalleled protection, self-healing, and hydrophobicity as its clear counterparts.



Unique finishing and color depth.



Constantly expanding color & finishing range.



Full 100% TPU PPF protection.



Resistant to fading under all weather conditions.

7.5-8.5mil (191-216µ) TPU Glossy/Satin 5-year warranty

COSMETIC PPF SPECIFICATIONS

Color Category	CL	HG	DM	SP	TP	
Total Thickness	7.5 mil (191 µ)*	8.0 mil (203 μ)*	8.5 mil (216 µ)*	8.0 mil (203 μ)*	8.5 mil (216 µ)*	
Top Coat	0.5 mil (13 μ) 5.5 mil (140 μ)* 1.2 mil (30 μ)					
Polyurethane Film						
Adhesive						

UV Accelerating Test - 3000 Hours, 105°F - Pass (Equivalent to 5 years)

TPU Haze (Clarity) Δ	1.0%	ASTM E1003-1 Original 0.8
Yellowing Δ	<0.8%	ASTM D1925-70
Self Healing Δ	Pass	Lab Testing
Cold Slam - Cracking or Peeling	Pass	TPJLR.52.055
Elongation (at break MD)	>340%	ASTM 6775-13
Stain Resistance (Unleaded gasoline, Kerosene)	No cosmetic defects	Lab Testing
20° Gloss (stainless steel surface)	>96 GU	Gloss Meter 20°
Chip Resistance Gravelometer	No damage on paint	ASTM D3170

	449.0 N/m	41 oz/in	20 minutes at room temperature
Peel Adhesion	481.0 N/m	44 oz/in	24 hours at room temperature
180 Degree Peel	514.0 N/m	47 oz/in	1 week at room temperature
1.0 mil coating	689.0 N/m	63 oz/in	1 week at 160°F/70°C
Paint Surface	765.0 N/m	70 oz/in	1 week at 95°F/ 35°C, 95% RH

Thickness tolerance: Maximum +/- 8%.
Data provided by TPU supplier.



FlexiShield Solar Control Window Films

Why install Solar Control Window Films on your vehicle?

FlexiShield Automotive Solar Control Window Films are engineered with advanced multi-layer technology to deliver superior protection and comfort. These high-performance films block up to 99% of harmful UV rays, reduce infrared heat, and cut glare, making every drive cooler, safer, and more enjoyable.

Applied to vehicle windows, FlexiShield films help preserve interior materials, reduce the need for air conditioning, and enhance overall energy efficiency. With a wide selection of film types and performance levels, FlexiShield offers customized solutions to meet a variety of aesthetic and functional preferences.

While increasing privacy and enhancing vehicle appearance, FlexiShield films maintain clear visibility and deliver long-lasting performance in all driving conditions. Whether for daily commutes or long road trips, trust FlexiShield to keep your ride protected and comfortable in any climate.

How do solar control window films work?

FlexiShield's Solar Control Window Films use a variety of technologies and US-sourced materials to manipulate the components of solar light and control the amount of visible light and heat which can access your vehicle's internal space.

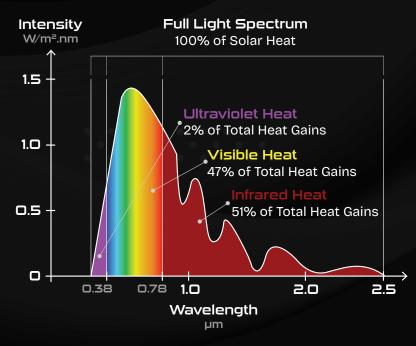
The solar light spectrum is composed of three main components:

Visible Light, to which the human eye is sensitive, and which allows us to see colors, objects, and landscapes. It is also responsible for 47% of solar heat gains within your vehicle.

Ultraviolet light, which represents only 2% of solar heat gains, but which can burn, and eventually damage skin, fade surfaces, and break down materials.

Infrared light, which is responsible for the remaining 51% of the solar heat gain within your vehicle, while offering no visibility advantages.

Higher-grade window films will not only block more UV and IR light, but they will also limit the solar gain effects of the visible light spectrum, while maintaining the highest possible visibility and transparency through your windows.



^{*} National Fenestration Rating Council's (NFRC) guidelines and calculated for single pane, nominal 1/8 inch (3mm) clear glass. Dry adhesive available.

Multilayer nano ceramic coating

Multilayer nano-ceramic coating window films offer superior heat rejection, UV protection, and glare reduction without sacrificing visibility. These films provide enhanced durability, scratch resistance, and long-term performance.

Dye- and metal-free composite film invulnerable to color fading or shade changes.

Exceptional IR protection (88% to 96%) and 99% UV protection.

Non-metallic construction for a zero-interference protection layer which does not affect cell-phone, radio, and GPS signals

Energy-efficient, blocking most of the solar heat from entering your vehicle. For a comfortable, safe, and energy-efficient driving experience.

Their advanced technology ensures effective thermal insulation, improved energy efficiency, and a sleek, non-reflective appearance, making them ideal for both automotive and architectural applications in which minimum alteration of the original glass look is a priority.

FS specifications	FS-70	FS-50	FS-40	FS-30	FS-20	FS-10	
Thickness	3.0mil	1.5mil	1.5mil	1.5mil	1.5mil	1.5mil	
Visible Light Transmission	72%	52%	42%	31%	23%	12%	
Visible Light Reflection Exterior / Interior	9% / 9%	6% / 6%	6% / 6%	6% / 6%	5% / 5%	5% / 5%	
Infra-Red Rejection	96%	88%	90%	90%	90%	90%	
UV Rejection	99%	99%	99%	99%	99%	99%	
Glare Reduction	26%	40%	52%	63%	83%	93%	
Total Solar Energy Rejection	56%	51%	54%	58%	65%	69%	

Carbon Ceramic

Carbon ceramic window films offer superior heat rejection, reducing interior temperatures and enhancing comfort. They block harmful UV rays, protecting furnishings and skin.

- Nano-carbon technology with a distinct carbon color and impressive performance,
- Excellent IR protection (74% to 80%) and 99% UV rejection.
- Invulnerable to color fading or shade changes due to its color-stable composition.
- Non-metallic construction for a zero-interference protection layer which does not affect cell-phone, radio, and GPS signals.
- **S** Energy-saving and cost-effective, for a comfortable and safe driving experience.

These films also provide increased privacy, glare reduction, and improved aesthetics without compromising visibility. Additionally, they are durable and require minimal maintenance for long-lasting performance.

GT specifications	GT-80	GT-50	GT-40	GT-30	GT-20	GT-10	GT-05	
Thickness	2.0mil	1.5mil	1.5mil	1.5mil	1.5mil	1.5mil	1.5mil	
Visible Light Transmission	78%	50%	41%	31%	21%	12%	6%	
Visible Light Reflection Exterior / Interior	6% / 6%	6% / 6%	6% / 6%	6% / 6%	6% / 6%	5% / 6%	5% / 5%	
Infra-Red Rejection	80%	76%	76%	74%	74%	77%	75%	
UV Rejection	99%	99%	99%	99%	99%	99%	99%	
Glare Reduction	21%	41%	52%	63%	71%	87%	93%	
Total Solar Energy Rejection	46%	48%	51%	55%	58%	63%	66%	



Sputtering Metal & Fade-free Colour-stable Dye

Durable, efficient, and fade-resistant window film technology.

Hybrid Sputtering Metal & Fade-free Colour-stable Dye window films offer superior heat rejection, enhanced UV protection, and long-lasting colour stability.

- Hybrid construction with one layer of dye and one layer of metallic-sputtered protection.
- Total Solar Energy Rejection TSER (43% to 60%) and 99% UV protection.
- Non-reflective dip-dyed look with the color-stability, solar control and extra-durability of metallic-sputtered protection.
- Energy-saving and cost-effective, for a comfortable and safe driving experience.

Combining sputtering metal technology with dye ensures durability, reduces fading over time, and maintains a consistent aesthetic. Ideal for energy efficiency and maintaining interior comfort, these films provide both function and style.

CH specifications	CH-80	CH-50	CH-40	CH-35	CH-30	CH-50	CH-15	CH-05	
Thickness	1.5mil								
Visible Light Transmission	78%	53%	43%	36%	31%	22%	16%	5%	
Visible Light Reflection Exterior / Interior	6% / 6%	8% / 7%	8% / 7%	8% / 8%	7% / 7%	7% / 6%	6% / 6%	6% / 6%	
Infra-Red Rejection	60%	50%	50%	52%	52%	56%	53%	55%	
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%	
Glare Reduction	22%	41%	49%	59%	62%	70%	83%	94%	
Total Solar Energy Rejection	43%	43%	47%	49%	53%	56%	58%	60%	

Color

Non-fading

Non-fading Color Stable Dip Dyed

The perfect balance between performance and affordability.

Non-fading Color Stable Dip Dyed window films provide long-lasting, vibrant color retention without fading over time.



Double-layered dip-dyed film for a longer service life and performance.



Total Solar Energy Rejection TSER (30% to 45%) and 99% UV protection.



Non-reflective appearance.



Non-metallic construction for a zero-interference protection layer which does not affect cell-phone, radio, and GPS signals

Energy-saving and cost-effective, for a comfortable and safe driving experience.

These films offer excellent heat and UV protection, reducing interior heat buildup and safeguarding against sun damage. With consistent aesthetic appeal and enhanced durability, they deliver both functionality and style for residential or commercial use.

PR specifications	PR-70	PR-50	PR-40	PR-35	PR-30	PR-20	PR-15	PR-07
Thickness	1.0mil							
Visible Light Transmission	70%	50%	42%	37%	32%	23%	15%	7%
Visible Light Reflection Exterior / Interior	6% / 6%	5% / 7%	5% / 7%					
Infra-Red Rejection	35%	30%	31%	31%	32%	33%	32%	31%
UV Rejection	99%	99%	99%	99%	99%	99%	99%	99%
Glare Reduction	29%	33%	51%	56%	64%	71%	79%	82%
Total Solar Energy Rejection	32%	30%	34%	36%	38%	40%	42%	45%





Streamline your workflow with FlexiShield's free-access pre-cut software.

FlexiShield's RAP 2.0 pre-cut software is provided free of charge to FlexiShield installers, based on a credit system of 25 credits (25m² cutting area) per standard PPF roll.

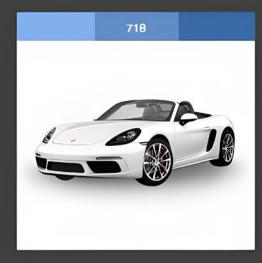
Over the years, RAP 2.0 has built a robust car database including American, European, and Asian models. New models are added daily, and can be prioritized on request. RAP 2.0 offers a number of advanced user functionalities such as part offsetting, emblem toggling, part labeling, and material optimization.



Search car, car model, manufactu

AMERICA

EXTERIOR







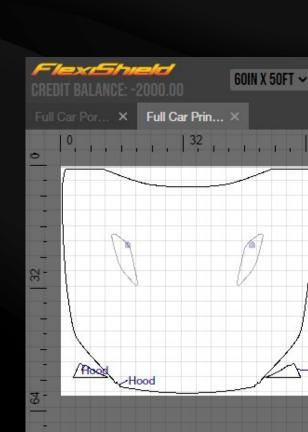
Free access to FlexiShield customers.



Large and expanding database of US, EU, and Asian cars.



Complete
customization to
meet specific installer
requirements.



-Hood

The ultimate shop companion for workflow optimisation

The FlexiShield FX-60 cutting plotter is a precision-engineered device designed specifically for automotive film installations. Fully compatible and pre-programmed to work seamlessly with FlexiShield's RAP 2.0 software, the FX-60 ensures accurate, efficient, and consistent cuts for paint protection and window films. With its high-speed performance and user-friendly interface, it streamlines workflow and minimizes material waste. The FX-60 supports a wide range of vehicle patterns directly from RAP 2.0's constantly updated database, making it an essential tool for professional installers. Built for durability and precision, the FX-60 delivers reliable performance on every job, enhancing productivity and installation quality.

Product	FlexiShield FX-60 Cutting Plotter				
Max Media Width	1650mm				
Max Cutting Width	1540mm				
Max. Contour Cutting Width	1500mm				
Packing Size	1920*360*388mm				
Packing Gross Weight	50kg				
Max Force	2000g				
Number of Heads	1				
Floor Stand	Yes				
Auto Contour Cut	Camera				
CorelDRAW Directly	Yes				
Power Supply, V/Hz	220/50				
Laser Engrave Option	No				
Scratch Engrave	Yes				
Motor	Stepper				
Processor Memory	128MB				
Cutting Precision	+/- O.O1mm				
Repeat Precision	0.082 mm				
Max Moving Speed	700mm/s				
Max Cutting Speed	600mm/s				
Connector Interface	USB flash / WIFI (option) / USB cable				
Power	<100W				
Working Environment	+5°C - +35°C				



Seamless Integration with RAP 2.0



Backed by FlexiShield's trusted installer support, ensuring efficiency, precision, and confidence on every job.



Engineered for nonstop shop performance, reducing waste while maximizing productivity and installation quality.



Help your customers decide with a stunning preview of their FlexiShield Cosmetic PPF project

FlexiShield has partnered up with XIX 3D to carry a fully updated catalogue of the nearly 100 FlexiShield Cosmetic PPF colors on their ZenoX platform. For a small monthly subscription fee this will allow you to show your customers live still and animated renderings of various color combinations, under different light conditions, and against realistic background environments.

Cosmetic PPF protection is an important investment, and a long-term style decision for your customers. It shouldn't be left entirely to their imagination. Help them decide, and support your sales process, with ZenoX & FlexiShield!



Help your customers visualize their projects.



Real-time rendering with thousands of customization options.



Thousands of high-resolution car models and dozens of environments.



Stand out from the crowd!

FlexiShield's comprehensive suite of tools, marketing material, and shop equipment revolutionizes paint protection film installation. With precision-cut templates and specialized application tools, achieving flawless installations becomes effortless.

Our marketing materials showcase the durability and clarity of FlexiShield's film, bolstering customer confidence. From precision knives to custom-designed workstations, we empower professionals to deliver an unparalleled customer experience.

FlexiShield's commitment to innovation sets the industry standard, equipping installers with the tools they need to exceed expectations and protect vehicles with confidence.



Application and detailing tools for the full FlexiShield product range.



Marketing and promotional material.



Shop and event decorations and visuals.



\$19.99



\$14.99



\$34.99



\$34,99



Black, nylon mix, availab

\$45,99











7 days after installation:

Do not wash your car.

 Do not use towels to wipe the film, particularly avoid wiping along the edges of the film.

 Do not use high-pressure water sprayers to rinse the film.

Within 3 days after installation:

• Do not drive over 50 MPH or 80 km/h.

After-care instructions:

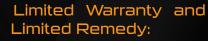
It is normal if there is some residual water under the film after installation. Within 15-30 days the water will have evaporated. Parking your car under direct sunlight will help accelerate the drying process.

After installing FlexiShield PPF, avoid using strong acids or alkalis to clean the PPF. Failure to do so could reduce gloss over time.

FlexiShield has self-healing and water-repelling properties. However, this does not ensure that the film will not be damaged under extreme conditions. Bird droppings and dead bugs on the film should be washed within 72 hours to avoid any residual penetration into the film.

If you find film edge lifting or water/ air bubbling, contact the installation shop for professional advice. Do not cut or peel the film yourself.

Avoid using low quality, microfiber cloths that could leak color and stain PPF film.



Reflek Technologies Corporation's extensive warranty certifies FlexiShield paint protection film and window film lines to be free of any manufacturing and workmanship defects for the periods described below, and from the date of installation on painted automotive surfaces. This warranty covers only those defects which can be attributed to the manufacturing process of the film such as fading, color change, cracking, bubbling, or delamination.

This warranty does not cover FlexiShield products installed on vehicles used for commercial or professional activities, including but not limited to racing cars, courier fleets, rentals, houseboats, or yachts.

Marine applications:

Due to the additional wear and deterioration caused by fresh and salt water on maritime applications, FlexiShield's manufacturer warranty for **above the waterline** and (marine) interiors use is shorter than on automotive and architectural applications.

For full warranty information and conditions please visit:

www.**FlexiShield**.com/ warranties







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COVERAGE YOU CAN COUNT ON!

A brand of:

