

STEK Automotive

Window Film Introduction



STEK Products

ICY Series

HP (High Performance)

ACTION Series

Nano-Carbon

SMART Series

Nano-Ceramic, Tungsten

NEX Series

*Nano-Ceramic, Tungsten,
ATO, Graphene*

VISION 70s

Multi-layer sputter

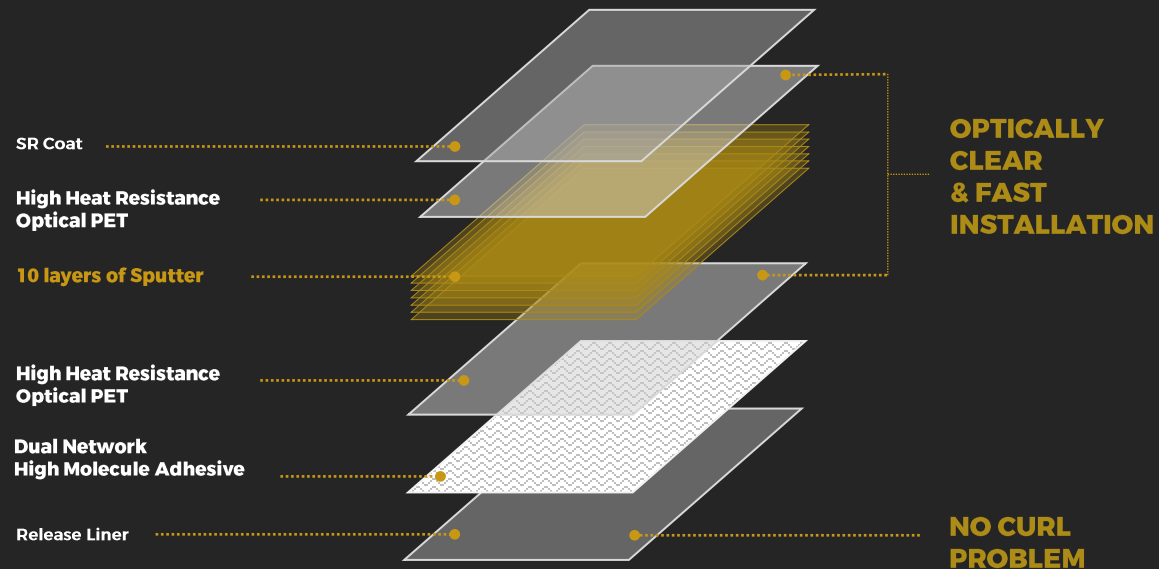
OVERVIEW & COMPARISON

STEK AUTOMOTIVE		vs.	Competitors	
High-End	Multi layer	VISION S 10 Layers of Sputter	 V-KOOL® VK series 7 Layers of Sputter	LX Series
Premium	Premium Nano Ceramic + Graphene	NEX Series	  	Crystalline XR Plus Wincos
	Nano Ceramic	SMART Series	 	AIR BL Series CXP Series, CIR series
General	Carbon Ceramic	ACTION Series	 	Color Stable Carbon Series
Economical	HP (High Performance)	ICY Series	 	ATR Series Suntek HP series

VISION S

High-end

10 layers of Sputters



Our most technologically advanced window film, VISION 70S boasts 10 layers of premium sputter.

Its PET structure boasts outstanding heat-blocking properties, resulting in maximal comfort. With its robust, scratch-resistant coating, VISION 70S provides exceptional clarity for a luxurious drive.

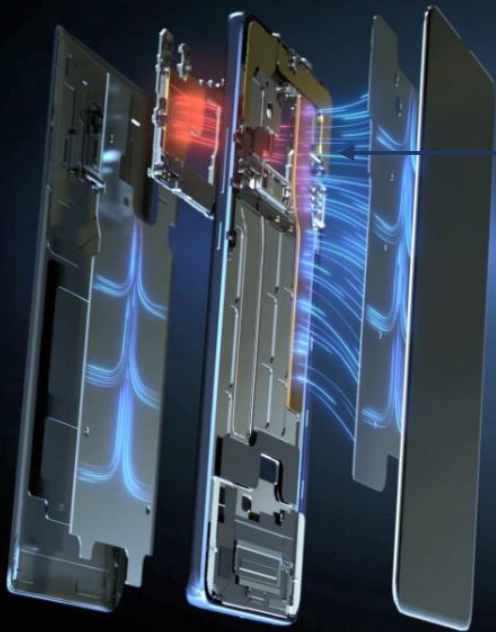


VISION
70S

70S		
Visible Light Transmittance (VLT)		69%
Visible Light Reflectance (VLR)	Exterior	11%
	Interior	10%
Solar Energy	Transmittance	37%
	Reflectance	32%
	Absorbance	31%
IR Rejection	950 nm	89%
	1400 nm	96%
UV Rejection		≥99%
Glare Reduction		26%
Total Solar Energy Rejected (TSER)		56%
Shading Coefficient		0.5

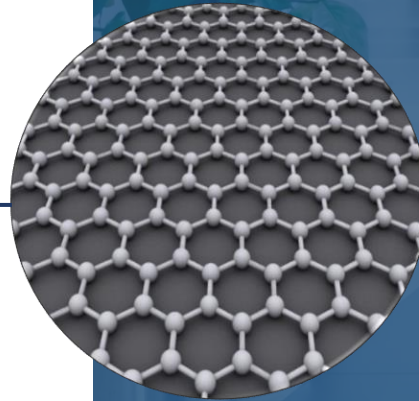
Performance of Solar Control with Graphene

Graphene film “cooling technology” is applied at smart phone battery for heat management purpose.



**Smartphone
Cooling system**

Application:
Batteries, Transistors,
Computer chips,
Energy generation,
Touchscreens (LCD or
OLED display), Solar
Cells, etc.



NEX Series

Premium nano-ceramic window film
with graphene cooling technology



Heat Reduction & Cooling Efficiency

NEX incorporates graphene as well as nano-ceramic particles—including tungsten & antimony tin oxide—in its proprietary structure. This allows it to both absorb heat and dramatically accelerate the rate of heat dissipation, keeping your vehicle consistently cool. With an IR rejection rate of up to 98% at 1400 nm, as well as a maximum TSER of 64%, NEX offers excellent cooling performance, reducing air conditioner load and fuel consumption.



Glare Reduction

Glare negatively affects driving visibility, and the NEX series is able to reduce up to 92% of this glare. This ensures top-notch clarity, leading to less eye strain and a more focused drive.



Privacy

The NEX series blocks up to 95% of visible light in your vehicle, dramatically increasing passenger privacy.



Graphene

Graphene is composed of a single, ultra-dense layer of carbon atoms bonded in a honeycomb-shaped formation. It is the strongest, lightest, and thinnest material in existence, with superb flexibility and durability. Due to its outstanding thermal conductivity—which is over ten times higher than both aluminum and copper—graphene forces heat to quickly dissipate to the film's exterior, allowing the nanoparticles within NEX to absorb the infrared rays as efficiently as possible. This advanced technology is also used in smartphone batteries, athletic wear, solar cells, and countless other products.



UV Protection

Ultraviolet light from the sun can cause dangerous health conditions, including skin cancer. The NEX series blocks 99% of these harmful UV rays, providing long-term protection. It also preserves electronics, fabric, leather, and plastic, preventing fading and discoloration of your car interior.

Ceramic window films typically contain **carbon, tungsten, and ATO (antimony tin oxide)**, as well as ITO (indium tin oxide) on occasion. These high-end films use these nanoparticles to achieve superior heat rejection and optical clarity.

Along with the nanoparticles used in ceramic window films, graphene—**an extremely efficient thermal conductor**—is added to increase the rate of heat dissipation.

Our series of premium nano-ceramic window films, **NEX** provides crystal clarity as well as top-notch UV and glare reduction.

Its fourth-generation design features advanced graphene cooling technology, resulting in exceptional heat rejection performance. Thanks to its lack of metal layers, NEX also never interferes with radio and satellite signals, guaranteeing full connectivity for all your devices.



NEX 05	NEX 15	NEX 35	NEX 45	NEX 70	NEX 85
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		05	15	35	45	70	85
Visible Light Transmittance (VLT)		5%	14%	35%	46%	69%	85%
Visible Light Reflectance (VLR)	Exterior	5%	5%	6%	7%	8%	8%
	Interior	5%	5%	6%	6%	8%	8%
Solar Energy	Transmittance	7%	12%	19%	26%	34%	63%
	Reflectance	5%	5%	5%	6%	6%	7%
	Absorbance	88%	83%	76%	69%	60%	30%
IR Rejection	950 nm	95%	94%	92%	92%	93%	26%
	1400 nm	96%	95%	96%	97%	97%	84%
UV Rejection		≥99%	≥99%	≥99%	≥99%	≥99%	≥99%
Glare Reduction		92%	83%	63%	50%	27%	5%
Total Solar Energy Rejected (TSER)		64%	61%	56%	52%	46%	27%
Shading Coefficient		0.41	0.45	0.51	0.56	0.63	0.85

SMART Series

Premium

Tungsten - Nano Ceramic WO_3 Blue color and excellent thermal conductivity. Used as a 950nm infrared blocking material.





Heat Reduction & Cooling Efficiency

SMART incorporates nano-carbon particles, including tungsten and antimony tin oxide, in its patented structure, allowing it to absorb heat and prevent it from reaching your vehicle interior. With an IR rejection rate of up to 91% and a TSER rate of up to 54%, the cooling efficiency is significantly improved, reducing air conditioner load and fuel consumption.



UV Protection

Ultraviolet light from the sun can cause dangerous health conditions, including skin cancer. The SMART series blocks 99% of these harmful UV rays, providing long-term protection. It also preserves electronics, fabric, leather, and plastic, preventing fading and discoloration of your car interior.



Glare Reduction

Glare negatively affects driving visibility, and the SMART series is able to reduce up to 92% of this glare. This ensures top-notch clarity, leading to less eye strain and a more focused drive.



Privacy

The SMART series blocks up to 95% of visible light in your vehicle, dramatically increasing passenger privacy.



Ceramic window films typically contain **carbon, tungsten, and ATO (antimony tin oxide)**, as well as ITO (indium tin oxide) on occasion. These high-end films use these nanoparticles to achieve superior heat rejection and optical clarity.

As far as window films go, **SMART** is a no-brainer.

Our optical-grade PET films contain nano-ceramic particles dispersed throughout their base material, resulting in outstanding temperature maintenance. Our advanced series also blocks 99% of UV rays and up to 95% of visible interior light, effectively keeping unwanted things—from sun damage to prying eyes—out.

SMART 05	SMART 15	SMART 35	SMART 45	SMART 70
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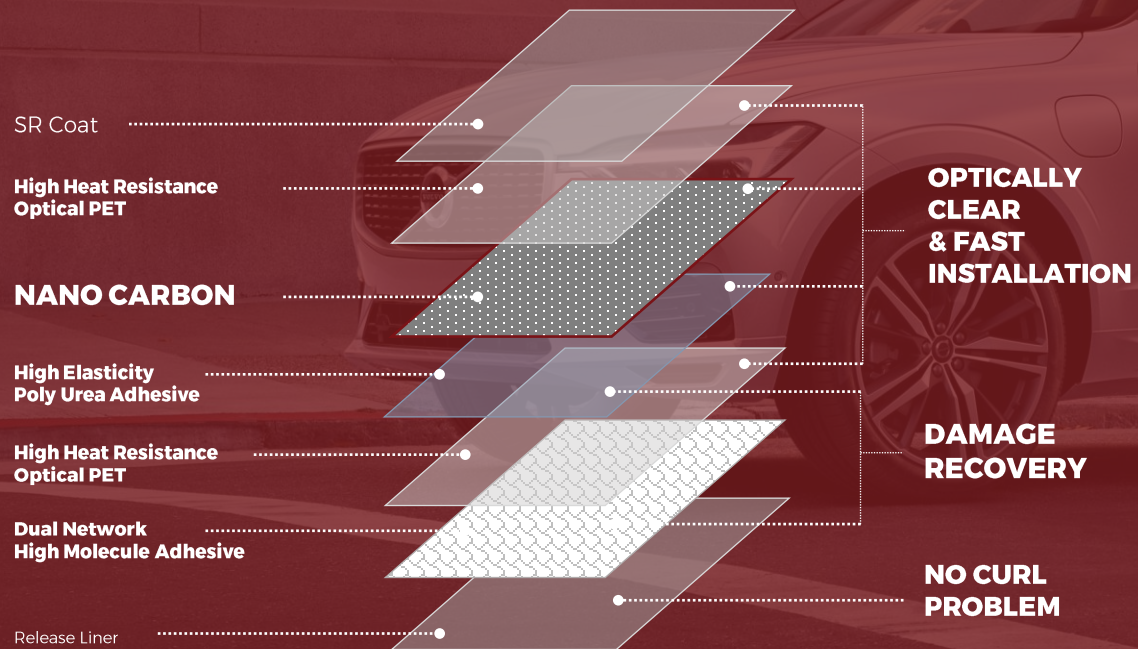
		05	15	35	45	70
Visible Light Transmittance (VLT)		5%	12%	33%	42%	72%
Visible Light Reflectance (VLR)	Exterior	5%	5%	6%	6%	8%
	Interior	5%	6%	6%	6%	7%
Solar Energy	Transmittance	14%	22%	30%	34%	37%
	Reflectance	5%	5%	6%	5%	6%
	Absorbance	81%	73%	64%	61%	57%
IR Rejection	950 nm	78%	73%	76%	75%	84%
	1400 nm	77%	80%	78%	78%	90%
UV Rejection		≥99%	≥99%	≥99%	≥99%	≥99%
Glare Reduction		92%	84%	63%	53%	24%
Total Solar Energy Rejected (TSER)		59%	54%	49%	46%	44%
Shading Coefficient		0.46	0.52	0.58	0.62	0.65

ACTION Series

General

Carbon Window Film

Carbon window films are resistant to fading and do not contain any dyes. Nano-carbon films use the smallest carbon particles available for the best clarity and haze reduction





Heat Reduction & Cooling Efficiency

ACTION incorporates nano-carbon particles in its patented structure, allowing it to absorb heat and prevent it from reaching your vehicle interior. With an IR rejection rate of up to 70% and a TSER rate of up to 55%, the cooling efficiency is significantly improved, reducing air conditioner load and fuel consumption.



Glare Reduction

Glare negatively affects driving visibility, and the ACTION series is able to reduce up to 93% of this glare. This ensures top-notch clarity, leading to less eye strain and a more focused drive.



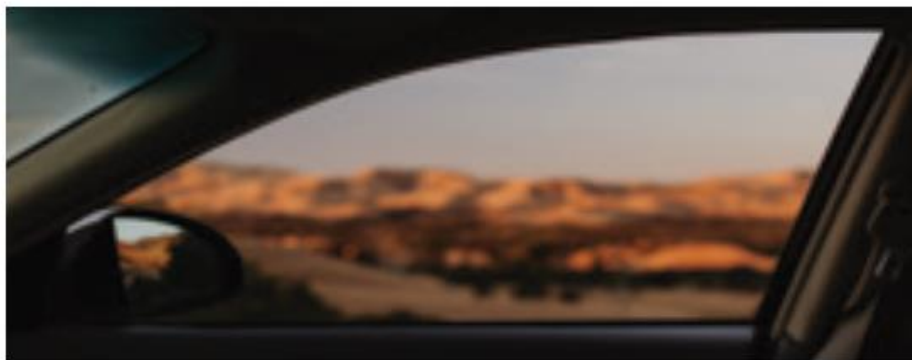
UV Protection

Ultraviolet light from the sun can cause dangerous health conditions, including skin cancer. The ACTION series blocks 99% of these harmful UV rays, providing long-term protection. It also preserves electronics, fabric, leather, and plastic, preventing fading and discoloration of your car interior.



Privacy

The ACTION series blocks up to 95% of visible light in your vehicle, dramatically increasing passenger privacy.



Carbon window films are resistant to fading and do not contain any dyes.

Nano-carbon films use the smallest carbon particles available for the best clarity and haze reduction.

In terms of protection, **ACTION** never stops.

Our premium nano-carbon window films boast a 99% UV rejection rate, providing unparalleled heat rejection and virtually eliminating fading. Plus, thanks to its metal-free structure, ACTION also guarantees complete functionality for your GPS, cell phone, and other electronic devices—allowing you to stay connected on the go.



ACTION 05	ACTION 15	ACTION 20	ACTION 35	ACTION 50	ACTION 80
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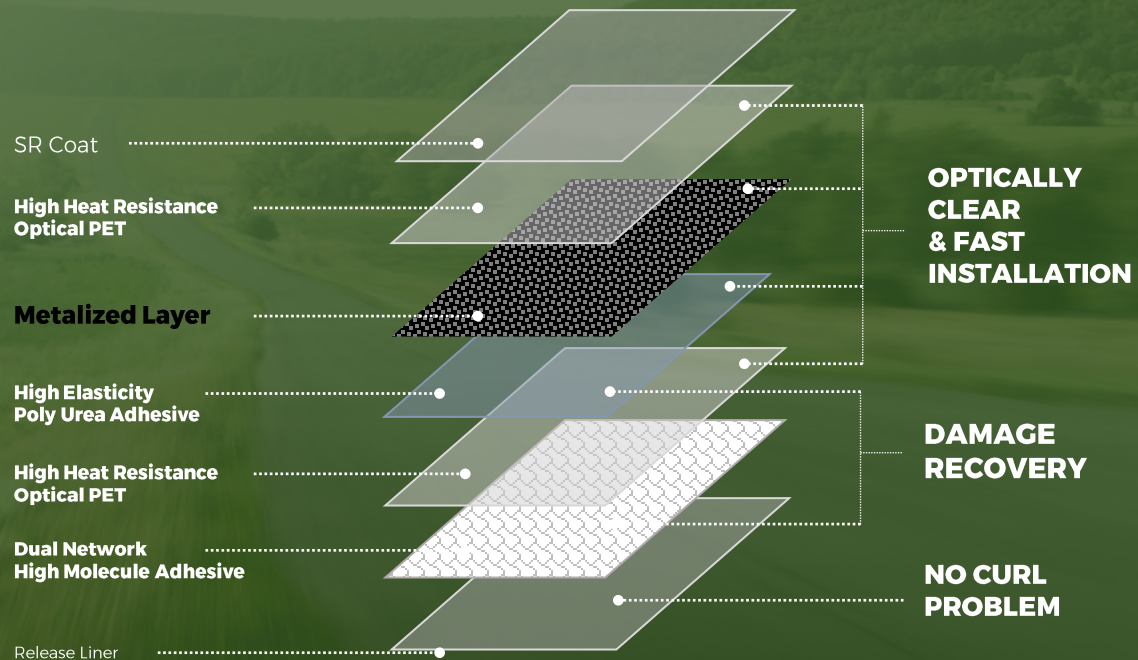
		05	15	20	35	50	80
Visible Light Transmittance (VLT)		6%	14%	20%	36%	49%	79%
Visible Light Reflectance (VLR)	Exterior	5%	5%	5%	6%	6%	8%
	Interior	6%	6%	5%	6%	7%	8%
Solar Energy	Transmittance	22%	30%	36%	47%	55%	58%
	Reflectance	5%	5%	5%	6%	7%	7%
	Absorbance	73%	65%	59%	47%	38%	35%
IR Rejection	950 nm	68%	57%	50%	39%	30%	37%
	1400 nm	57%	46%	40%	31%	23%	65%
UV Rejection		≥99%	≥99%	≥99%	≥99%	≥99%	≥99%
Glare Reduction		93%	84%	-	65%	50%	24%
Total Solar Energy Rejected (TSER)		54%	49%	1%	38%	32%	32%
Shading Coefficient		0.51	0.57		0.7	0.76	0.78

ICY Series

Economical

High-Performance Window Film

High-performance window films are a hybrid of dyed material and usually aluminum. These films are fairly reflective and provide a moderate level of heat rejection





Heat Reduction & Cooling Efficiency

ICY is a metallized, dyed film that reflects the light that is primarily responsible for the heat you feel while you drive. The metal layer of the film reflects Infrared Light (IR), ultimately reducing the heat that enters your vehicle. ICY features an IR rejection rate of up to 40% at 1400 nm and a Total Solar Energy Rejection (TSER) rate of up to 44%. This enhances the performance in cooling efficiency by reducing air conditioner load and fuel consumption.



Privacy

The ICY series blocks up to 95% of visible light in your vehicle, dramatically increasing passenger privacy.



UV Protection

Ultraviolet light from the sun can cause dangerous health conditions, including skin cancer. The ICY series blocks 99% of these harmful UV rays, providing long-term protection. It also preserves electronics, fabric, leather, and plastic, preventing fading and discoloration of your car interior.



Glare Reduction

Glare negatively affects driving visibility, and ICY series is able to reduce up to 94% of this glare. This ensures top-notch clarity, leading to less eye strain and a more focused drive.



High-performance window films are a hybrid of dyed material and usually aluminum. These films are fairly reflective and provide a moderate level of heat rejection.

Meet **ICY**, our series of window films with excellent heat and glare reduction properties.

Combined with effective UV protection, ICY reduces fading of your car's interior while keeping you cool. Plus, by blocking up to 95% of visible light within your vehicle, ICY guards your privacy wherever you go.



ICY 05	ICY 15	ICY 20	ICY 35	ICY 50
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		05	15	20	35	50
Visible Light Transmittance (VLT)		5%	13%	20%	36%	50%
Visible Light Reflectance (VLR)	Exterior	5%	6%	5%	6%	7%
	Interior	5%	5%	5%	6%	7%
Solar Energy	Transmittance	37%	39%	43%	49%	53%
	Reflectance	6%	6%	6%	6%	7%
	Absorbance	57%	55%	51%	45%	40%
IR Rejection	950 nm	42%	38%	39%	39%	39%
	1400 nm	42%	37%	39%	36%	36%
UV Rejection		≥99%	≥99%	≥99%	≥99%	≥99%
Glare Reduction		94%	86%	81%	62%	52%
Total Solar Energy Rejected (TSER)		44%	43%	40%	36%	34%
Shading Coefficient		0.62	0.63	0.66	0.64	0.75