

HS[®] PERFORMANCE WINDOW FILMS

MADE IN THE USA



ULTIMATE UV PROTECTION

99% UV RAYS REJECTED



WHY BUY

HS[®] PERFORMANCE WINDOW FILMS

- It is manufactured by the largest manufacturer of window film in the world.
- The quality of the polyester is the clearest and most uncontaminated that exists.
- The color or dye of the film is not on the adhesive. The color is the actual polyester.
- Dyed polyester maintains the stability of the color much longer than dyed adhesive.
- Dyed adhesive runs, smears & discolors when applying. Dyed polyester will not.
- **HS Performance Films** contains UV absorbers in the adhesive and the polyester which prolong the color stability & add longer life.
- "A Grade" **HS Performance Films** maintains consistency in color, adhesives, UV protection, lengths & sizes as opposed to "seconds film material" or lesser quality films.
- Our large supply of window film in stock allows quick shipping within 72 hours.
- Quality backed up by the manufacturer. ISO 9001.
- **HS Performance Films** contains the most durable scratch resistant coating in the market.

HS PERFORMANCE FILMS HAVE BEEN TESTED AND CONFORM TO THE FOLLOWING INTERNATIONALLY RECOGNIZED STANDARDS:

PERSONAL SAFETY GLAZING

ANSI Z97.1
CPSC 16 CFR 1201
BS 6206
JIS A5759
GB 9962-88

WINDBORN DEBRIS PROTECTION

Dade County PA 201-94/pa 202-94

BURGLARY RESISTANCE

DIN 52290 Part 4/Type A1

BLAST HAZARD MITIGATION

GSA (Glazing Systems Subject to Air-blast Loadings)

PHYSICAL TESTING

ASTM D 1929 (Self-Ignition Temperature)
ASTM D 635 (Rate of Burn)
ASTM E 84 (Surface Burning Characteristics)
ASTM E 162 (Surface Flammability)
ASTM E 662 (Smoke O.D.)
ASTM D 1044/1003 (Surface Abrasion Resistance)

ASTM D 882 (Tensile Strength)
ASTM D 3330 (Peel Strength)
ASTM D 4830 (Puncture Strength)
ASTM D 1922/1004 (Tear Resistance)

WINDOW FILMS

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WINDOW FILM



GOOD

Standard "A" Grade Dyed Film Scratch-Resistant

Reduced-cost constructions of the most popular colors and visible light transmissions for dyed polyester automotive films. All films are scratch-resistant (SR) and contain UV absorbers in the mounting adhesive and polyester for excellent color stability, longevity, and solar performance. Installer-friendly films are easily heat-formed and have PS mounting adhesive for rapid install on curved auto glass and glass with dot-matrix patterns.

(50.8 cm x 61 m) 20" x 200' NON-REFLECTIVE

		VLT	TSER	HS
14.2325	Black (Charcoal)	5%	45%	HS
14.2324	Black (Charcoal)	20%	38%	HS
14.2326	Black (Charcoal)	35%	34%	HS
14.2328	Black (Charcoal)	50%	29%	HS

(101.6 cm x 61 m) 40" x 200' NON-REFLECTIVE

		VLT	TSER	HS
14.4325	Black (Charcoal)	5%	45%	HS
14.4324	Black (Charcoal)	20%	38%	HS
14.4326	Black (Charcoal)	35%	34%	HS

(152.4 cm x 61 m) 60" x 200' NON-REFLECTIVE

		VLT	TSER	HS
14.6325	Black (Charcoal)	5%	45%	HS
14.6324	Black (Charcoal)	20%	38%	HS
14.6326	Black (Charcoal)	35%	34%	HS

VLT: Visible Light Transmittance TSER: Total Solar Energy Rejected



WE HAVE THE CAPABILITIES NOW TO CUSTOM CUT YOUR WINDOW FILM WIDTH SIZES. PLEASE ASK YOUR SALES REP FOR MORE DETAILS.



BETTER TITANIUM

Titanium "A" Grade Metalized Film Scratch-Resistant

Laminate constructions of deep-dyed and metalized films. In addition to the beauty of dyed films, these films offer enhanced solar heat rejection. All are scratch-resistant (SR) and contain UV absorbers in both the mounting adhesive and polyester for excellent color stability, product longevity, and solar performance. These installer-friendly films are easily heat-formed and have PS mounting adhesive for rapid installation on curved auto glass and glass with dot-matrix patterns.



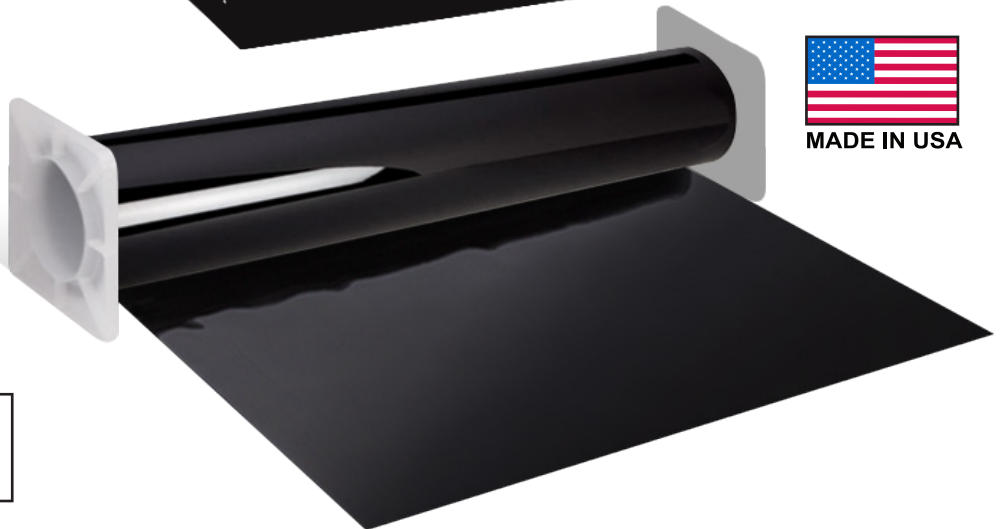
(50.8 cm x 61 m) 20" x 200' REFLECTIVE

		VLT	TSER	HS
14.TI3BK22	Black	3%	65%	HS
14.TI10BK22	Black	10%	60%	HS
14.TI20BK22	Black	20%	55%	HS

(152.4 cm x 61 m) 60" x 200' REFLECTIVE

14.TI3BK62	Black	3%	65%	HS
14.TI20BK62	Black	20%	55%	HS
14.TI30BK62	Black	30%	47%	HS

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BEST

Professional "A" Grade Premium Metalized Film Scratch-Resistant

Highest-Quality Laminate constructions of deep-dyed and metalized films. In addition to the beauty of dyed films, these films offer enhanced solar heat rejection. All are scratch-resistant (SR) and contain UV absorbers in both the mounting adhesive and polyester for excellent color stability, product longevity, and solar performance. These installer-friendly films are easily heat-formed and have PS mounting adhesive for rapid installation on curved auto glass and glass with dot-matrix patterns.

		(50.8 cm x 61 m)	20" x 200'	
		VLT	TSER	
14.PM5C22	Charcoal	5%	63%	H5
14.PM20C22	Charcoal	20%	48%	H5
14.PM20B22	Bronze	20%	48%	H5
		(152.4 cm x 30.5 m)	60" x 100'	
14.PM5C61	Charcoal	5%	63%	H5
14.PM20C61	Charcoal	20%	48%	H5
14.PM35C61	Charcoal	35%	44%	H5
14.PM50C61	Charcoal	55%	34%	H5
	(Old# 14.XAR50C61)			

Premium Reflective "A" Grade Film Scratch-Resistant

High-quality laminate constructions of deep-dyed and reflective (metallized) films. All are SR-coated and UV-protected in both the mounting adhesive and polyester for enhanced color stability, product longevity, and solar performance. A broad range of colors and light transmissions offer a wide choice of films for any climate or any appearance. Films are offered with PS adhesive systems.

		(152.4 cm x 30.5 m)	60" x 100'	
		VLT	TSER	
14.XR20SI61	Silver	18%	79%	H5

Professional "A" Grade, High Performance Sputtered Film Scratch Resistant

Our finest automotive films. The deposition of metals in these films by the "sputtering" process provides excellent heat rejection with increased visible light transmittance and reduced light reflectance with permanent color stability. All are SR-coated and UV protected in both the mounting adhesive and the polyester. These installer-friendly films are easily heat-formed and have PS mounting adhesive for rapid installation on curved auto glass and glass with dot-matrix patterns.

		(50.8 cm x 61 m)	20" x 200'	
		VLT	TSER	
14.DM35N22	Neutral	35%	53%	H5
		(152.4 cm x 30.5 m)	60" x 100'	
		VLT	TSER	
14.XAP20N61	Neutral	20%	63%	H5
14.XAP35N61	Neutral	35%	52%	H5
14.XAP50N61	Neutral	50%	41%	H5

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Safety / Security "A" Grade Film Scratch-Resistant

Professional grade clear films of varying thickness. These films are designed to protect people and property from flying shards of glass caused by vandalism, earthquakes, terrorist activity, explosions, etc. Film has an extra strong PS adhesive and scratch resistant coating. We only use Dupont TeijinR polyester because it is the best quality polyester for safety in the market. Large amount of adhesive on this safety film allow us to surpass American & European standards of impact, shatterproof & dropball tests.

CLEAR SECURITY FILM (152.4 cm x 30.5 m) 60" x 100'

			VLT	TSER	HS
14.XSCLSRPS2	Clear	2 mil	89%	16%	HS
14.XSCLSRPS4	Clear	4 mil	89%	16%	HS



Safety / Solar Security "A" Grade Film Scratch-Resistant

Professional grade deep-dyed layer films offer the same protection as the clear security films but also provide heat and glare reduction for increasingly popular automotive and building applications. Film has extra strong, UV-Protected, PS adhesive and a scratch resistant coating. We only use Dupont TeijinR polyester because it is the best quality polyester for safety in the market. Large amount of adhesive on this safety film allow us to surpass American & European standards of impact, shatterproof & dropball tests.

DYED SECURITY FILM (152.4 cm x 30.5 m) 60" x 100'

			VLT	TSER	HS
14.XSA15CSR4	Charcoal	4 mil	17%	43%	HS
14.XSA35CSR4	Charcoal	4 mil	35%	34%	HS
14.XSA50CSR4	Charcoal	4 mil	50%	29%	HS

Clear Security Film

Dyed Security Film



Privacy / Decorative "A" Grade Film Scratch Resistant

These translucent frosted films allow light to pass through while providing complete privacy. Heat rejection varies depending upon film selection. Film has UV-protected PS mounting adhesive. This film can be custom cut to create names, designs, logos that can be applied to windows.

DYED SECURITY FILM (152.4 cm x 30.5 m) 60" x 100'

			VLT	TSER	HS
14.XM70WPS61	White Frost		69%	28%	HS

For Your Information:

Unlike moving vehicles, buildings have static windows. This means that windows are exposed to constant heat throughout the day. Therefore, it is recommended that DM (XAN) & HP (XAP) films be used on building applications. You can heat form all of our window films from EA, TI, XA, PM (XAR), DM (XAN), HP (XAP), XATT, XR, XS to the security 7 mil polyester. All professional films contain high grade professional non-recycle polyesters.

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WINDOW FILMS

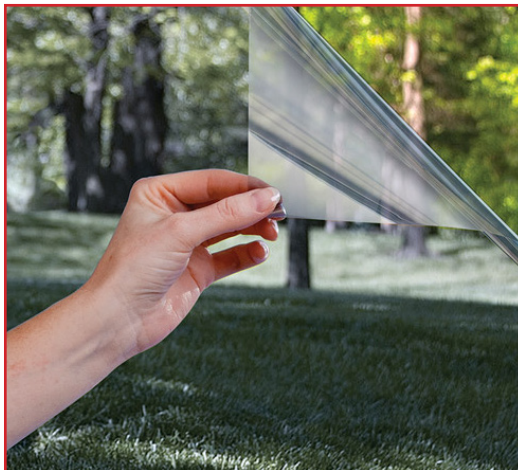
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**WE ARE OFFICIAL
LLUMAR DISTRIBUTORS**



Note: Color is clear with a very light blue tone.



**Professional "A" Grade AIR Film
Nano-Ceramic, Scratch Resistant
Non-Reflective Non-Metalized**

AIR Films, by LLumar, ensure no signal interference from popular devices such as radios, GPS, keyless entry, cell phones and navigation devices. The unique technology used to produce AIR Blue makes it the most state-of-the-art automotive film today. The Film provides a proprietary non-metalized, non-conductive ceramic technology Film with maximum heat rejection, maximum ultra-violet rejection, excellent optical clarity, and scratch- and corrosion-resistant properties. AIR Films, by LLumar, dramatically reduce irreversible damage to human skin and vehicle interiors due to harmful ultraviolet (UV), visible, and infrared (IR) rays that penetrate ordinary window glass, while keeping the vehicle significantly cooler.

AIR Films, by LLumar, are nano-ceramics films that, thanks to its technology, allow high heat rejection and at the same time high percentage of visible light transmission. In other words, practically clear films reject high levels of heat as dark films do. AIR Films, by LLumar, are light enough to meet visible light transmission laws for windscreens in most countries worldwide. AIR Films, by LLumar, provide the ultimate in comfort and protection as well as an elegant image. They have applications in the automotive and architectural sector. Installed AIR Films, by LLumar, help maintain temperature in interior surfaces of vehicles, offices or homes up to a maximum of 16°C (30°F) much cooler than in comparison with unprotected glass. This reduction in temperature increases the comfort but also reduces the use of air conditioners, helping to reduce costs and fuel consumption. Reflectivity does not reduce visibility at nighttime.

(152.4 cm x 30.5 m) 60" x 100'

14.AIR80BL61

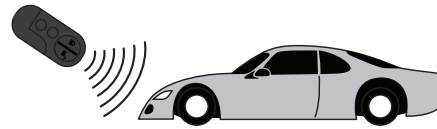
Blue

VLT	TSER
78%	44%



VLT: Visible Light Transmittance

TSER: Total Solar Energy Rejected



Does Not Interrupt Radio Frequency

130°F

Without Air Blue Window Film

100°F

Protected by Air Blue Window Film

