WINDOW FILM PERFORMANCE DATA

Product	VLT	VLR		Solar Energy			IR Rejection		UV Rejection	Glare Reduction	TSER	SC
		Exterior	Interior	Transmittance	Reflectance	Absorbance	950	1400				
VISION 70S	69%	11%	10%	37%	32%	31%	89%	96%	≥99%	26%	56%	0.5
NEX 05	5%	5%	5%	7%	5%	88%	95%	96%	≥99%	92%	64%	0.41
NEX 15	14%	5%	5%	12%	5%	83%	94%	95%	≥99%	83%	61%	0.45
NEX 35	35%	6%	6%	19%	5%	76%	92%	96%	≥99%	63%	56%	0.51
NEX 45	46%	7%	6%	26%	6%	69%	92%	97%	≥99%	50%	52%	0.56
NEX 70	69%	8%	8%	34%	6%	60%	93%	97%	≥99%	27%	46%	0.63
NEX 85	85%	8%	8%	63%	7%	30%	26%	84 %	≥99%	5%	27%	0.85
SMART 05	5%	5%	5%	14%	5%	81%	78%	77%	≥99%	92%	59%	0.46
SMART 15	12%	5%	6%	22%	5%	73%	73%	80%	≥99%	84%	54%	0.52
SMART 35	33%	6%	6%	30%	6%	64%	76%	78%	≥99%	63%	49%	0.58
SMART 45	42%	6%	6%	34%	5%	61%	75%	78%	≥99%	53%	46%	0.62
SMART 70	72%	8%	7%	37%	6%	57%	84%	90%	≥99%	24%	44%	0.65
ACTION 05	6%	5%	6%	22%	5%	73%	68%	57%	≥99%	93%	54%	0.51
ACTION 15	14%	5%	6%	30%	5%	65%	57%	46%	≥99%	84%	49%	0.57
ACTION 20	20%	5%	5%	36%	5%	59%	50%	40%	≥99%	-	49%	-
ACTION 35	36%	6%	6%	47%	6%	47%	39%	31%	≥99%	65%	38%	0.7
ACTION 50	49%	6%	7%	55%	7%	38%	30%	23%	≥99%	50%	32%	0.76
ACTION 80	79%	8%	8%	58%	7%	35%	37%	65%	≥99%	24%	32%	0.78
4 MIL												
ACTION SAFETY 05	6%	5%	6%	22%	5%	73%	69%	55%	≥99%	93%	54%	0.51
ACTION SAFETY 20	20%	5%	6%	30%	5%	65%	50%	40%	≥99%	80%	49%	0.57
ACTION SAFETY 35	34%	6%	6%	47%	6%	47%	41%	32%	≥99%	66%	38%	0.7
ACTION SAFETY 50	45%	6%	7%	55%	7%	38%	32%	26%	≥99%	55%	32%	0.76
8 MIL												
ACTION SAFETY 05	6%	5%	6%	22%	5%	73%	68%	54%	≥99%	92%	54%	0.51
ACTION SAFETY 20	20%	5%	6%	35%	5%	60%	50%	39%	≥99%	79%	46%	0.54
ACTION SAFETY 35	34%	6%	6%	46%	6%	48%	38%	29%	≥99%	64%	39%	0.69
ICY 05	5%	5%	5%	37%	6%	57%	42%	42%	≥99%	94%	44%	0.62
ICY 15	13%	6%	5%	39%	6%	55%	38%	37%	≥99%	86%	43%	0.63
ICY 20	20%	5%	5%	43%	6%	51%	39%	39%	≥99%	81%	40%	0.66
ICY 35	36%	6%	6%	49%	6%	45%	39%	36%	≥99%	62%	36%	0.64
ICY 50	50%	7%	7%	53%	7%	40%	39%	36%	≥99%	52%	34%	0.75

Glossary

Total Solar Energy Rejected (TSER)
The percentage of total solar energy rejected by filmed glass. The higher this value, the less solar heat is transmitted.

Visible Light Transmittance (VLT)
The percentage of visible light that passes directly through filmed glass. The higher the number, the lighter the film.

Infrared Rejection (IR)
The percentage of infrared light rejected by the film on the glass. Infrared is primarily responsible for the heat you feel while driving.

UV Rejection
The percentage of harmful ultraviolet light (UV) that is rejected by the film. UV light contributes to sunburn and other harmful skin conditions and to the fading and deterioration of fabrics and leather.

Glare Reduction
Glare, which is produced by haze, can hinder vision, especially during nighttime. Window films with low haze dramatically reduce this glare.

All data collected by STEK using internal testing methods.
Data values are representative figures only. For more information, refer to our official technical data sheets (TDS).

Types of Window Films

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.

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.

Ceramic Window Film

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.

Ceramic Window Film with Graphene

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

Multi-Layer Window Film

In multi-layer window films, metal sputtering technology is used to create very fine layers. The resulting films are extremely effective in blocking radiation bands from direct sources of sunlight.