



AUTOMOTIVE FILM SPECIFICATIONS on 1/4" Clear Glass

All of Johnson Automotive Window Films reject 99% or more of harmful UV rays.

FILM TYPE TYPE DE FILM FOLENTYP TIPO DE LÁMINA TIPO DI PELLICOLA FOLIE TYPE	VISIBLE LIGHT TRANSMISSION TRANSMISSION DE LUMIERE VISIBLE LUMINOSIDAD DE LA LUZ VISIBLE TRANSMISSIONE DELLA LUCE VISIBLE LICHTDOORLATHAARHEID	SOLAR ENERGY REJECTION ENERGIE SOLAIRE REJETEE ENERGIA SOLAR RECHAZADA RICHAZO TOTAL DE ENERGIA SOLAR ENERGIA SOLARE RIFLESSA TEGENBOHOUDEN ZONNE-ENERGIE	VISIBLE LIGHT REFLECTANCE (EXT/INT) REFLECTIVITE DE LA LUMIERE VISIBLE (Extérieur/Intérieur) REFLECTIVIDAD DE LA LUZ VISIBLE (Exterior/Interior) REFLESSIONE DELLA LUCE VISIBLE (Esterno/Interno) REFLECTIE VAN ZICHTBAAR LICHT (Extern/Intern)	SHADING COEFFICIENT COEFFICIENT D'OMBRE SCHATTENKOEFFIZIENT COEFICIENTE DE SOMBRADO COEFFICIENTE DI SCHERMATURA SCHADUWFACTOR	SOLAR HEAT GAIN COEFFICIENT COEFFICIENT DE GAIN D'ENERGIE SOLAIRE GESAMTENERGIEKURKUNTSCHLASSGRAD COEFICIENTE DE GANANCIA DE CALOR SOLAR COEFFICIENTE DI GAININGO SOLARE ZONTOEGEWINSFACTOR	GLARE REDUCTION REDUCTION DE L'ÉCLAUSEMENT BLENDSCHUTZ REDUCCION DE LA LUZ ENCEJECEDORA VERBLINDINGS REDUCTIE	FADING REDUCTION REDUCTION DE LA DECOLORATION VERBLASSEN REDUCTION REDUCCION DE DISCOLORAMIENTO REDUCCION DI FREGIDA DI COLORE VERKLEURINGSGROECOTE	IRER SIRR REJECTION IRER SIRR REJECTION IRER SIRR RECHAZO IRER SIRR RIFUTO IRER SIRR AFWIJZING		
CLEAR GLASS	88%	18%	8%	0.94	0.82	0%	N/A	N/A	N/A	
IR 85	82%	31%	9%	0.78	0.69	7%	52%	43%	60%	
IR 80	76%	42%	8%	0.67	0.58	14%	56%	55%	80%	
IR 70	66%	50%	7%	0.56	0.50	25%	61%	64%	93%	
IR 45	42%	46%	6%	0.61	0.54	52%	66%	55%	79%	
IR 35	32%	50%	6%	0.58	0.50	63%	69%	55%	79%	
IR 20	17%	54%	5%	0.52	0.46	81%	74%	55%	79%	
IR 05	6%	56%	5%	0.50	0.44	93%	77%	56%	80%	
MN 45	46%	42%	8%	0.67	0.58	48%	64%	41%	54%	
MN 35	37%	43%	7%	0.66	0.57	58%	66%	40%	53%	
MN 30	30%	45%	6%	0.64	0.55	66%	68%	39%	52%	
MN 20	20%	49%	5%	0.58	0.50	77%	72%	38%	51%	
MN 15	12%	58%	5%	0.52	0.49	86%	76%	49%	64%	
MN 05	5%	60%	6%	0.47	0.40	94%	78%	50%	65%	
RN 50	49%	31%	6%	0.79	0.69	44%	60%	22%	28%	
RN 43	42%	34%	6%	0.76	0.66	52%	63%	22%	28%	
RN 35	36%	35%	5%	0.75	0.65	59%	64%	22%	28%	
RN 30	31%	37%	5%	0.73	0.63	65%	66%	22%	28%	
RN 20	21%	39%	5%	0.71	0.61	76%	69%	22%	28%	
RN 05	6%	43%	5%	0.66	0.57	93%	74%	22%	28%	
CH 35	35%	37%	6%	0.73	0.63	60%	65%	22%	28%	
CH 20	21%	40%	5%	0.69	0.60	76%	69%	22%	28%	
CH 15	15%	43%	5%	0.66	0.57	83%	72%	22%	28%	
CH 05	7%	45%	5%	0.64	0.55	92%	74%	22%	28%	

InsulatIR
SUPERIOR INFRARED REJECTION

MARATHON
HIGH-PERFORMANCE FILMS

RENEGADE
COLOR STABLE, NON-REFLECTIVE FILMS

Ray Guard
NON-REFLECTIVE WINDOW FILMS

Solar specifications represent film mounted to 6mm (1/4") clear glass.

Tests, equipment and methods according to ASTM, ANSI and NFRC standards. Calculations performed using Lawrence Berkeley Lab's Optics/Window 6. Values expressed hereof are typical and provided for comparative purposes only

All Johnson Window Films' automotive films reject 99% or more of harmful UV rays and are protected by CST™ scratch resistant hardcoat.

Laws governing automotive window tinting are strictly enforced. Please stay within legal boundaries.

Tous les films automobiles Johnson Window Films rejettent 99% voir plus de rayons UV nocifs et, sont protégés par un revêtement CST™ durable et résistant aux rayures. Les lois en matière de vitres automobiles teintées sont strictement appliquées. Veuillez rester dans les limites légales.

Alle Fahrzeug-Folien von Johnson Window Films weisen mind. 99% der schädlichen UV-Strahlung ab und werden durch eine CST™ kratzbeständige Schicht geschützt. Die Gesetze zur Tönung von Autoglas werden streng überwacht. Bitte halten Sie sich an die gesetzlichen Vorgaben.

Todas las láminas automotriz de Johnson Window Films rechazan el 99% o más de los rayos UV nocivos y están protegidas con una capa CST™ resistente a rayones. Las leyes que rigen lo tintado de ventanas de automóviles se deben cumplir. Por favor, permanezca dentro de los límites legales.

Tutte le pellicole per auto della Johnson Window Films respingono almeno il 99% dei dannosi raggi UV e protette da un rivestimento durevole e resistente ai graffi CST™. Viene applicata rigorosamente la normativa sull'oscuramento dei vetri auto. Si prega di rimanere sempre nei limiti prescritti dalla legge.

Alle autofolies van Johnson Window Films houden minimaal 99% van de schadelijke UV-straling tegen en worden beschermd door een CST™ krasbestendige toplaag. De wetgeving op getinte ruiten in motorvoertuigen is gehandhaafd. Houdt u aan de wet, a.u.b.



The Skin Cancer Foundation recommends Johnson Window Films products as effective UV protectants.



Johnson Window Films

Manufactured by Johnson Laminating & Coating, Inc.
Carson, California USA

www.johnsonwindowfilms.com

AUTOMOTIVE SPECIFICATIONS

TERMS & DEFINITIONS

VISIBLE LIGHT TRANSMISSION

Visible Light Transmission is the percentage of solar visible light (daylight) that passes through a glazing system.

SOLAR ENERGY REJECTED

Solar Energy Rejected is the percentage of total solar energy (heat) that is rejected away from a glazing system. This equals solar heat reflectance plus the amount of solar heat absorbed that is then re-radiated outwards.

VISIBLE LIGHT REFLECTANCE

This is the percentage of reflectivity (mirror effect) that occurs on the glazing system. The higher the value, the more reflective the exterior, providing a more mirror-like appearance.

SHADING COEFFICIENT

Shading Coefficient is the ratio of solar heat gain passing through a glazing system to the solar heat gain that occurs under the same conditions if the window were made of clear, un-shaded double strength window glass (lower SC equals better solar shading performance).

SOLAR HEAT GAIN COEFFICIENT

Solar Heat Gain Coefficient is the percentage of total solar heat that enters a glazing system. This includes heat directly transmitted as well as heat that is absorbed by the glass and then transmitted inwards (lower SHGC means less heat transfer from the exterior to the interior).

GLARE REDUCTION

The ratio of the difference in visible transmission of the glass before and after installing film to the visible transmission of the glass with no film. It is expressed as a percentage and is determined by the respective visible transmission values of the glass with and without film.

FADE REDUCTION

Combined fading percentages are determined by applying rejection percentages on each cause of fading to determine the overall reduction in fade that a specific product can return.

Using the IWFA fading explanation found at www.iwfa.com

INFRARED ENERGY REJECTION (IRER)

The measurement of heat experienced from solar infrared radiation (780 - 2,500 nm), which includes both re-radiated and absorbed energy.

SELECTIVE IR REJECTION (SIRR)

Solar infrared radiation (780 - 2,500 nm) not directly transmitted through the glass.

