



RESIDENTIAL & COMMERCIAL FILM SPECIFICATIONS on 1/8" Clear Glass

Johnson Window Films' solar control flat glass films on clear glass reject 99% or more of harmful UV rays.

FILM TYPE	COLOR	VISIBLE LIGHT TRANSMISSION	SOLAR ENERGY REJECTION	VISIBLE LIGHT REFLECTANCE		SHADING COEFFICIENT	SOLAR HEAT GAIN COEFFICIENT	HEAT LOAD REDUCTION RATING	U-FACTOR NFRC	SOLAR ABSORPTION	GLARE REDUCTION	FADING REDUCTION
				Exterior	Interior							
CLEAR GLASS	clear	89%	14%	8%	8%	0.99	0.86	—	1.04	10%	0%	—

SUN 70	natural	67%	50%	19%	17%	0.58	0.50	★★★★☆	1.01	34%	25%	60%
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Occupant Comfort Rating 88%

NS 35	neutral	36%	50%	17%	11%	0.57	0.50	★★★★☆	1.02	43%	60%	68%
NS 25	neutral	24%	65%	33%	16%	0.40	0.35	★★★★☆	.96	44%	73%	75%
NS 15	neutral	14%	72%	40%	11%	0.33	0.28	★★★★★	.95	45%	84%	79%
NS 07	neutral	8%	73%	39%	7%	0.31	0.27	★★★★★	.97	48%	91%	81%
NS 05	neutral	6%	69%	12%	12%	0.36	0.31	★★★★☆	.98	61%	94%	80%

SV 50	neutral	50%	44%	16%	12%	0.65	0.56	☆☆☆☆☆	1.07	40%	44%	63%
SV 35	neutral	36%	58%	26%	17%	0.49	0.42	★★★★☆	1.01	46%	60%	70%
SV 25	neutral	27%	67%	38%	25%	0.38	0.33	★★★★☆	1.01	42%	70%	75%
SV 10	neutral	8%	82%	58%	25%	0.21	0.18	★★★★★	1.03	41%	91%	83%
SV 50 EXT*	neutral	45%	50%	19%	13%	0.57	0.50	★★★★☆	1.04	44%	49%	66%
SV 25 EXT*	neutral	29%	66%	36%	23%	0.39	0.34	★★★★☆	1.04	39%	67%	74%
SV 10 EXT*	neutral	9%	82%	56%	24%	0.21	0.18	★★★★★	1.04	36%	90%	83%

* Designed for exterior (EXT) use only.

DN 60	neutral	63%	30%	11%	9%	0.81	0.70	☆☆☆☆☆	1.10	29%	29%	56%
DN 50	neutral	49%	39%	14%	11%	0.70	0.61	☆☆☆☆☆	1.10	39%	45%	62%
DN 35	neutral	37%	45%	18%	16%	0.63	0.55	☆☆☆☆☆	1.10	43%	58%	67%
DN 20	neutral	22%	60%	26%	26%	0.46	0.40	★★★★☆	1.08	52%	75%	74%
DN 15	neutral	18%	62%	19%	16%	0.44	0.38	★★★★☆	1.08	64%	80%	76%
DN 35 EXT*	neutral	37%	49%	16%	18%	0.60	0.51	☆☆☆☆☆	1.04	48%	59%	68%
DN 20 EXT*	neutral	22%	63%	26%	26%	0.43	0.37	★★★★☆	1.04	54%	75%	75%

* Designed for exterior (EXT) use only.

SB 30	bronze	33%	66%	27%	24%	0.39	0.34	★★★★☆	.98	36%	63%	73%
SB 20	bronze	20%	77%	37%	34%	0.26	0.23	★★★★★	.97	35%	77%	79%

SS 35	silver	35%	65%	40%	39%	0.41	0.35	★★★★☆	.96	35%	61%	72%
SS 20	silver	19%	77%	57%	57%	0.26	0.23	★★★★★	.95	34%	79%	79%
SS 35 EXT*	silver	35%	64%	40%	38%	0.41	0.36	★★★★☆	1.04	30%	61%	72%
SS 20 EXT*	silver	20%	75%	52%	49%	0.28	0.25	★★★★★	1.04	31%	78%	78%

* Designed for exterior (EXT) use only.

MBL 35	blue silver	35%	50%	11%	18%	0.57	0.50	★★★★☆	1.04	46%	61%	68%
MBL 20	blue silver	19%	68%	21%	42%	0.37	0.32	★★★★☆	.96	50%	78%	77%
MGN 35	green silver	35%	48%	9%	15%	0.59	0.52	☆☆☆☆☆	1.05	48%	61%	68%
MGN 20	green silver	19%	68%	18%	41%	0.37	0.32	★★★★☆	.96	53%	79%	77%
MGD 35	gold silver	32%	65%	35%	39%	0.40	0.35	★★★★☆	.97	38%	64%	73%
MGD 20	gold silver	17%	77%	50%	57%	0.26	0.23	★★★★★	.95	38%	81%	80%

UV CLR	clear	91%	12%	8%	8%	1.01	0.88	☆☆☆☆☆	1.10	6%	0%	45%
WHTFST*	white	75%	24%	18%	19%	0.88	0.76	☆☆☆☆☆	1.10	11%	16%	49%
WHTOUT	white	DUE TO LIGHT SCATTERING - NFRC MEASUREMENTS ARE NOT MEANINGFUL										
BLKOUT	black	0%	70%	6%	6%	0.36	0.30	★★★★★	1.10	93%	100%	82%

* White Frost does not have a recommendation from the Skin Cancer Foundation.

SUNLIGHT
SPECTRALLY-SELECTIVE CLEAR SOLAR PROTECTION

NightScape
DUAL REFLECTIVE, NON-SPUTTERED FILMS

ScenicView
DUAL REFLECTIVE, NON-FADING FILMS

DaylightNatural
NEUTRAL, NON-FADING FILMS

Sunset Bronze
COPPER, NON-FADING SPUTTERED FILMS

Solar Silver
SILVER, NON-FADING METALLIZED FILMS

Architectural
COLOR METALLIZED SOLAR CONTROL FILMS

Specialty Series
DECORATIVE SPECIAL APPLICATION FILMS



The Skin Cancer Foundation recommends this product as an effective UV protectant.

All Johnson Window Films are protected by CST™ scratch resistant hardcoat.

Solar specifications represent film mounted to 1/8" (3mm) 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. Johnson Window Films film specifications can be verified through the International Glazing Database (IGDB).

Only the user is aware of the conditions in which the product will be used, it is the user's responsibility to determine if the product is suitable for use.



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

www.johnsonwindowfilms.com

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.

UV LIGHT REDUCTION

Light Reduction is the percentage of Ultraviolet Rays that is rejected away from a glazing system.

EXTERIOR REFLECTANCE

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

INTERIOR REFLECTANCE

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

SOLAR ABSORPTION

Solar Absorption is the percentage of total solar heat that is neither transmitted through nor rejected away from a glazing system (i.e. the percentage of total solar heat absorbed by the glazing system).

SOLAR REFLECTANCE

Solar Reflectance is the percentage of solar heat that is reflected away from a glazing system.

SOLAR TRANSMISSION

Solar Transmission is the percentage of solar heat that passes through a glazing system.

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).

U-FACTOR NFRC

U-Factor (or U-Value) is a measurement of solar heat transfer due to outdoor/indoor temperature differences. This represents the amount of heat passing through one square foot of glass in one hour for each 1 degree Fahrenheit temperature difference between the indoor and outdoor. The lower the U-Factor the less solar heat passes through a window of interest for keeping heat inside a building in colder climates.

HEAT LOAD REDUCTION RATING

Heat load reduction rating is based on the Solar Heat Gain Coefficient to determine which products offer the most in energy savings.

FADING REDUCTION

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



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