



ESPECIFICAÇÕES PELÍCULAS PARA ARQUITETURA

para vidros duplos 3mm



FILM TYPE TYPE DE FILM TIPO DE LÁMINA TIPO DI PELLICOLA FOLIE TYPE	VISIBLE LIGHT TRANSMISSION TRANSMISSÃO DE LUZ VISÍVEL TRANSMISSION DE LA LUZ VISIBILE LUMINOSITÀ DELLA LUCE VISIBILE	SOLAR ENERGY REJECTION REJEIÇÃO DE ENERGIA SOLAR REJECTION OF SOLAR ENERGY RESISTENZA ALL'ENERGIA SOLARE	VISIBLE LIGHT REFLECTANCE REFLEXÃO DE LUZ VISÍVEL REFLECTION OF VISIBLE LIGHT RIFLESSIONE DELLA LUCE VISIBILE	SHADING COEFFICIENT COEFICIENTE DE SOMBRAMENTO COEFFICIENT DE L'OMBRAGE SOFFICIENZA D'OMBREGGIAMENTO	SOLAR HEAT GAIN COEFFICIENT COEFICIENTE DE GANHO DE CALOR SOLAR COEFFICIENT DE GAIN DE CHALEUR SOLAIRE COEFFICIENTE DI GUADAGNO TERMICO SOLARE	U-FACTOR NFRC FACTOR U NFRC U-FATTOR NFRC U-FATTOR NFRC	SOLAR ABSORPTION ABSORÇÃO SOLAR ABSORPTION SOLAIRE ASSORBIMENTO SOLARE	GLARE REDUCTION REDUÇÃO DE BRILHO REDUCTION OF GLARE RISPARMIO DI LUMINOSITÀ	FADING REDUCTION REDUÇÃO DE DESBASTAMENTO REDUCTION OF FADING RISPARMIO DI DESBASTAMENTO	IRER / SIRR REJECTION REJEIÇÃO DE INFRAVIOLETA / INFRARROSSO REJECTION OF INFRARED RADIATION RESISTENZA ALL'IRRADIAMENTO	HEAT LOAD REDUCTION RATING ÍNDICE DE REDUÇÃO DE CARGA DE CALOR INDEX OF HEAT LOAD REDUCTION INDICE DI RIDUZIONE DELLA CARICA TERMICA WÄRMELASTREDUKTIONSWERTE WÄRMELASTREDUKTIONSWERTE		
VIDROS DUPLOS 3mm	81%	24%	15%	15%	0.88	0.76	0.54	17%	0%	0%	28%	37%	not rated

Sunlight.

SPECTRALLY-SELECTIVE CLEAR SOLAR PROTECTION

SUN 70	64%	47%	24%	21%	0.62	0.54	0.53	37%	21%	60%	59%	83%	not rated
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Palisade.

PREMIUM NANO-CERAMIC SOLAR PROTECTION

PD 50	44%	61%	16%	10%	0.68	0.59	0.54	57%	46%	69%	46%	81%	not rated
PD 45	41%	46%	21%	14%	0.63	0.55	0.53	56%	49%	66%	52%	85%	not rated
PD 40	38%	47%	21%	15%	0.61	0.53	0.55	54%	53%	67%	52%	83%	not rated
PD 75 EXT	69%	52%	14%	15%	0.55	0.48	0.54	53%	15%	60%	70%	85%	★★★★☆

SUGESTÃO

NightScope.

DUAL REFLECTIVE, NON-SPUTTERED FILMS

NS 35	32%	45%	22%	12%	0.63	0.55	0.53	51%	60%	68%	48%	72%	not rated
NS 25	24%	58%	38%	17%	0.49	0.42	0.51	48%	70%	73%	60%	82%	★★★★☆
NS 15	13%	63%	44%	11%	0.43	0.37	0.51	50%	84%	77%	64%	85%	★★★★☆
NS 07	8%	63%	41%	8%	0.43	0.37	0.51	54%	90%	78%	63%	85%	★★★★☆
NS 05	5%	56%	18%	12%	0.51	0.44	0.52	65%	94%	77%	61%	84%	★★★★☆

ScenicView.

DUAL REFLECTIVE, NON-FADING FILMS

SV 50	45%	41%	21%	14%	0.68	0.59	0.55	47%	44%	64%	45%	71%	not rated
SV 35	33%	51%	30%	18%	0.57	0.49	0.54	51%	59%	69%	55%	83%	★★★★☆
SV 25	25%	58%	40%	25%	0.48	0.42	0.53	49%	69%	73%	62%	88%	★★★★☆
SV 10	8%	71%	57%	25%	0.34	0.30	0.53	50%	90%	80%	71%	96%	★★★★★
SV 50 EXT*	41%	60%	20%	18%	0.46	0.40	0.54	49%	49%	69%	66%	77%	★★★★★
SV 25 EXT*	26%	73%	36%	26%	0.31	0.27	0.54	43%	68%	76%	78%	87%	★★★★★
SV 10 EXT*	8%	88%	56%	27%	0.14	0.13	0.54	37%	90%	85%	90%	96%	★★★★★

SUGESTÃO

DaylightNatural.

NEUTRAL, NON-FADING SPUTTERED FILMS

DN 60	56%	33%	17%	12%	0.77	0.67	0.56	38%	31%	59%	35%	55%	not rated
DN 50	44%	38%	20%	13%	0.71	0.62	0.55	46%	46%	63%	40%	64%	not rated
DN 35	34%	41%	23%	18%	0.67	0.59	0.55	50%	58%	66%	41%	67%	not rated
DN 20	20%	50%	30%	26%	0.57	0.50	0.55	58%	75%	72%	51%	82%	★★★★☆
DN 15	16%	49%	24%	17%	0.58	0.51	0.55	67%	80%	73%	50%	87%	not rated
DN 35 EXT*	34%	58%	18%	23%	0.49	0.42	0.54	52%	58%	71%	56%	67%	★★★★☆
DN 20 EXT*	20%	71%	26%	30%	0.33	0.29	0.54	57%	75%	77%	71%	82%	★★★★★

SUGESTÃO

Sunset Bronze.

COPPER, NON-FADING SPUTTERED FILMS

SB 30	30%	57%	30%	25%	0.49	0.43	0.52	49%	63%	71%	64%	87%	★★★★☆
SB 20	18%	66%	38%	34%	0.40	0.34	0.51	50%	78%	77%	72%	94%	★★★★☆

Solar Silver.

SILVER, NON-FADING METALLIZED FILMS

SS 35	32%	58%	42%	40%	0.48	0.42	0.51	43%	60%	71%	62%	85%	★★★★☆
SS 20	17%	69%	56%	57%	0.36	0.31	0.51	44%	79%	78%	69%	88%	★★★★☆
SS 35 EXT*	33%	71%	41%	39%	0.34	0.29	0.54	34%	59%	74%	77%	85%	★★★★★
SS 20 EXT*	19%	81%	52%	49%	0.22	0.19	0.54	33%	77%	80%	85%	91%	★★★★★

SUGESTÃO

Architectural

COLOR METALLIZED SOLAR CONTROL FILMS

MBL 35	31%	44%	18%	19%	0.64	0.56	0.54	53%	62%	68%	48%	72%	not rated
MBL 20	18%	58%	25%	42%	0.49	0.43	0.51	56%	78%	75%	64%	86%	★★★★☆
MGN 35	31%	43%	16%	16%	0.66	0.57	0.54	55%	62%	68%	45%	69%	not rated
MGN 20	17%	57%	23%	42%	0.50	0.44	0.51	59%	79%	75%	63%	86%	★★★★☆
MGN 35	30%	58%	37%	40%	0.49	0.43	0.51	46%	63%	72%	62%	85%	★★★★☆
MGD 20	16%	67%	50%	58%	0.37	0.33	0.51	48%	80%	77%	70%	92%	★★★★☆

* Designed for exterior (EXT) use • Conçus pour la pose en extérieur (EXT) • Entwickelt für die Außenanwendung (EXT) • Diseñado para uso exterior (EXT) • Progettate per l'installazione esterna (EXT) • Ontworpen voor buiten (EXT) gebruik

Specialty Series

DECORATIVE SPECIAL APPLICATION FILMS

UV CLR	81%	25%	16%	16%	0.86	0.75	0.55	20%	0%	51%	29%	38%	not rated
WHTFST	63%	34%	24%	23%	0.76	0.66	0.55	27%	22%	57%	35%	49%	not rated
WHTOUT	DUE TO LIGHT SCATTERING - NFRC MEASUREMENTS ARE NOT MEANINGFUL												
BLKOUT	0%	49%	13%	5%	0.58	0.51	0.55	89%	100%	77%	51%	99%	not rated



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

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

Solar specifications represent film mounted to 3mm (1/8") dual pane 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.

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.
An ISO 9001:2015 Certified Company
www.johnsonwindowfilms.com



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.

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.

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.

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).

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. Expressed as a percentage and is determined by the respective visible transmission values of the glass with and without film.

FADING 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.

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.

