PL FLAT GLASS FILM SPECIFICATIONS

on 1/4 inch Clear Glass

65% 81% not rated

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

19% 17%

FILM TYPE	COLOR	VISIBLE LIGHT TRANSMISSION	SOLAR ENERGY REJECTION	REFLEC	LIGHT TANCE Interior	SHADING COEFFICIENT	SOLAR HEAT GAIN COEFFICIENT	U-FACTOR NFRC	SOLAR ABSORPTION	GLARE REDUCTION	FADING REDUCTION	IRER SIRR REJECTION 780-2500 nm	HEAT LOAD REDUCTION RATING
1/4" CLEAR GLASS	clear	88%	18%	8%	8%	0.94	0.82	1.03	16%	0%	-	N/A N/A	not rated

0.58

Sunlight.

Palisade. AR PROTECTION

PD 50	natural	48%	49%	9%	8%	0.58	0.51	1.03	60%	45%	65%	56%	78%	not rated
PD 45	natural	45%	54%	15%	12%	0.53	0.46	.99	58%	49%	67%	62%	83%	****
PD 40	natural	41%	55%	16%	14%	0.52	0.45	1.05	57%	53%	68%	61%	81%	****
PD 75 EXT*	natural	75%	43%	9%	9%	0.66	0.57	1.02	52%	15%	57%	58%	82%	not rated

* Designed for exterior (EXT) use only. This is a spectrally-selective film

natural

68%

SUN 70

NightScape.

NS 35	neutral	35%	53%	17%	11%	0.54	0.47	1.01	53%	60%	69%	53%	69%	★★★☆☆
NS 25	neutral	25%	65%	34%	17%	0.40	0.35	.94	49%	72%	75%	65%	80%	****
NS 15	neutral	14%	71%	41%	11%	0.33	0.29	.93	51%	84%	79%	69%	83%	****
NS 07	neutral	8%	72%	38%	8%	0.32	0.28	.96	55%	91%	81%	69%	84%	****
NS 05	neutral	6%	68%	12%	12%	0.37	0.32	.96	68%	93%	80%	67%	82%	****

ScenicView.

SV 50	neutral	48%	47%	15%	12%	0.61	0.53	1.05	49%	45%	64%	50%	68%	not rated
SV 35	neutral	26%	66%	37%	25%	0.39	0.34	1.00	50%	70%	75%	62%	81%	****
SV 25	neutral	26%	66%	37%	25%	0.39	0.34	1.00	50%	70%	75%	69%	86%	****
SV 10	neutral	8%	79%	55%	25%	0.24	0.21	1.01	50%	91%	82%	78%	96%	****
SV 50 EXT*	neutral	44%	53%	18%	12%	0.55	0.48	1.02	48%	50%	67%	58%	75%	****
SV 25 EXT*	neutral	28%	67%	36%	21%	0.38	0.33	1.02	42%	68%	74%	72%	85%	****
SV 10 EXT*	neutral	9%	52%	56%	22%	0.20	0.18	1.02	36%	90%	75%	85%	95%	****

* Designed for exterior (EXT) use only.

DaylightNatural.
NEUTRAL, NON-FADING SPUTTERED FILMS

	DN 60	neutral	60%	35%	10%	9%	0.75	0.65	1.08	39%	32%	58%	36%	50%	not rated
	DN 50	neutral	48%	43%	13%	11%	0.65	0.57	1.08	48%	45%	63%	44%	60%	not rated
	DN 35	neutral	36%	48%	18%	16%	0.60	0.52	1.08	52%	59%	68%	46%	63%	not rated
3	DN 20	neutral	22%	60%	25%	26%	0.46	0.40	1.06	61%	75%	74%	59%	80%	****
	DN 15	neutral	17%	62%	18%	16%	0.44	0.38	1.06	70%	81%	76%	61%	85%	****
	DN 35 EXT*	neutral	36%	50%	16%	17%	0.58	0.50	1.03	51%	59%	68%	48%	63%	****
	DN 20 EXT*	neutral	22%	63%	26%	25%	0.42	0.37	1.02	55%	75%	75%	62%	80%	****

SB 30

Sunset Bronze.

SB 20	bronze	20%	74%	35%	34%	0.30	0.26	.95	51%	77%	78%	78%	93%	****
SS 35	silver	34%	64%	39%	39%	0.41	0.36	.95	44%	61%	72%	68%	83%	****
SS 20	silver	18%	75%	55%	57%	0.29	0.25	.93	44%	80%	79%	76%	91%	****
SS 35 EXT*	silver	35%	66%	40%	35%	0.39	0.34	1.02	33%	60%	72%	72%	83%	****

0.36

0.24

1.02

32%

77%

79%

80%

0.41

0.27

Solar Silver.

	SS 20 EXT*	silve
*	Designed for exterior (EX	T) use only.

silver

20%

76%

Architectural

MBL 35	blue silver	34%	52%	11%	18%	0.55	0.48	1.02	55%	61%	69%	53%	69%	****
MBL 20	blue silver	19%	67%	20%	42%	0.38	0.33	.94	58%	78%	77%	70%	85%	****
MGN 35	green silver	34%	51%	9%	16%	0.56	0.49	1.03	57%	61%	69%	50%	66%	★★★☆☆
MGN 20	green silver	18%	67%	18%	41%	0.38	0.33	.95	61%	80%	77%	69%	84%	****
MGD 35	gold silver	32%	64%	34%	39%	0.41	0.36	.95	47%	64%	73%	68%	83%	****
MGD 20	gold silver	16%	75%	48%	57%	0.29	0.25	.93	48%	82%	79%	76%	91%	****

Specialty Series.

UV CLR	clear	88%	20%	9%	9%	0.92	0.80	1.04	19%	0%	48%	N/A	N/A	not rated
WHTFST*	white	68%	32%	18%	19%	0.78	0.68	1.04	27%	23%	56%	N/A	N/A	not rated
WHTOUT	white		DUE TO	LIGH	T SCA	TTERING	- NFRC ME	ASUREM	ENTS AR	E NOT M	EANINGF	UL		
BLKOUT	black	0%	68%	5%	5%	0.36	0.32	1.04	95%	100%	82%	N/A	N/A	****

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



90% ****

26% 24%

52%

46%

TERMS AND DEFINITIONS

FLAT GLASS FILM SPECIFICATIONS

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 COFFFICIENT

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 NERC

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.

