



SUNGUARD

WINDOW FILMS

SPECIFICATION.

WINDOW FILM TYPE: BRONZE REFLECTIVE 20 - HIGH

BRONZE REFLECTIVE.

Sunguard Reflective Window Film range consists of solar control and privacy window films with a reflective appearance. Provides our highest level of daytime privacy with optical transparency. Used where both high levels of heat and glare reduction are essential. Rejects up to 79% of solar energy, helping reduce heat build-up, and energy costs, increasing occupant comfort. Rejects up to 76% of glare. Reduction of hot spots helps increase HVAC efficiency and lower energy costs. Shields 99% of UV radiation, helping to reduce fading of valuables, fabrics and furnishings. Constructed with a durable scratch resistant coating for easy cleaning.

PHYSICAL PROPERTIES NOMINAL.

Nom. Thickness: 50 microns
Tensile strength: 2,100 kg/cm²
Melting point: 260 – 265 °C

*Infrared rejection = 1 - average unweighted transmittance using ASTM E 903.

**T_{dw}-ISO is the percentage of transmitted light that causes fading. A lower number means more protection against fading.

All window films meet classification B-S1,d0 (tests acc to SBI EN13823) and class M1 (tests acc.to NF P 92-501).

SOLAR ENERGY REJECTED. UP TO:	GLARE REDUCTION. UP TO:	UV REJECTED. UP TO:
79%	76%	99%

PERFORMANCE PARAMETERS FOR DIFFERENT WINDOW TYPES

	4MM SINGLE CLEAR		4/12/4MM DOUBLE CLEAR	
	NO FILM	WITH FILM	NO FILM	WITH FILM
SOLAR ENERGY.				
Solar heat gain coefficient (G-value)	.87	.21	.77	.32
Solar heat gain reduction %	0	75	0	58
Total solar energy rejected %	13	79	23	68
Infrared rejection @780 - 2500 nm %*	17	87	17	77
Light to solar heat gain ratio (VLT/SHGC)	1.04	1.04	1.05	.63
Transmittance %	85	13	73	12
Absorptance %	7	39	14	44
Reflectance %	8	48	13	44
VISIBLE LIGHT.				
Transmittance %	90	22	82	20
Reflectance exterior %	8	37	15	39
Reflectance interior %	8	36	15	36
Glare reduction %	0	76	0	75
THERMAL ENERGY.				
Emissivity	.84	.66	.84	.66
Winter U-factor (W/m ² °C)	5.8	5.3	2.8	2.7
ULTRAVIOLET LIGHT.				
Blocked @300 to 380 nm %	36	>99	51	>99
FADE CONTROL.				
Fade control UV T _{dw} -ISO @300 - 700 nm %**	85	13	74	12
Fade reduction %	0	85	0	84

FILM PERFORMANCE. (4MM SINGLE CLEAR)

