



SUNGUARD

WINDOW FILMS

SPECIFICATION.

WINDOW FILM TYPE: SILVER REFLECTIVE 20 - HIGH

SILVER 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 80% of solar energy, helping reduce heat build-up, and energy costs, increasing occupant comfort. Rejects up to 82% 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.

**Tdw-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
80%	82%	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	.20	.77	.30
Solar heat gain reduction %	0	77	0	61
Total solar energy rejected %	13	80	23	70
Infrared rejection @780 - 2500 nm %*	17	84	17	73
Light to solar heat gain ratio (VLT/SHGC)	1.04	.82	1.05	.51
Transmittance %	85	12	73	11
Absorptance %	7	35	14	41
Reflectance %	8	53	13	48
VISIBLE LIGHT.				
Transmittance %	90	16	82	15
Reflectance exterior %	8	58	15	58
Reflectance interior %	8	58	15	59
Glare reduction %	0	82	0	81
THERMAL ENERGY.				
Emissivity	.84	.70	.84	.70
Winter U-factor (W/m ² °C)	5.8	5.4	2.8	2.7
Winter heat loss reduction %	0	7	0	4
ULTRAVIOLET LIGHT.				
Blocked @300 to 380 nm %	36	>99	51	>99
FADE CONTROL.				
Fade control UV Tdw-ISO @300 - 700 nm %**	85	14	74	13
Fade reduction %	0	84	0	82

FILM PERFORMANCE. (4MM SINGLE CLEAR)

