SUNGUARD
WINDOW FILMS

SPECIFICATION.

WINDOW FILM TYPE: INSULATION - LOW-E - SILVER 50 - LIGHT

SILVER REFLECTIVE.

Sunguard Low-E Window Film range has a reflective appearance. It is designed for colder climates to reduce heat loss. Rejects up to 58% of solar energy, and retains heat in cooler months, reducing year-round energy costs. During warmer months a 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:	WINTER HEAT LOSS REDUCTION. UP TO:	UV REJECTED. UP TO
58%	24%	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	.42	.77	.49
Solar heat gain reduction %	0	51	0	37
Total solar energy rejected %	13	58	23	51
Infrared rejection @780 - 2500 nm %*	17	58	17	52
Light to solar heat gain ratio (VLT/SHGC)	1.04	1.20	1.05	.96
Transmittance %	85	36	73	32
Absorptance %	7	37	14	40
Reflectance %	8	27	13	28
VISIBLE LIGHT.				
Transmittance %	90	51	82	47
Reflectance exterior %	8	23	15	28
Reflectance interior %	8	27	15	29
Glare reduction %	0	43	0	43
THERMAL ENERGY.				
Emissivity	.84	.37	.84	.37
Winter U-factor (W/m 2°C)	5.8	4.4	2.8	2.4
Winter heat loss reduction %	0	27	0	18
ULTRAVIOLET LIGHT.				
Blocked @300 to 380 nm %	36	>99	51	>99
FADE CONTROL.				
Fade control UV Tdw-ISO @300 - 700 nm %**	85	39	74	35
Fade reduction %	0	54	0	53

FILM PERFORMANCE. (4MM SINGLE CLEAR)