SUNGUARD
WINDOW FILMS

SPECIFICATION.

WINDOW FILM TYPE: INSULATION - LOW-E - SILVER 20 - HIGH

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 78% 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
78%	26%	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	.22	.77	.33
Solar heat gain reduction %	0	74	0	58
Total solar energy rejected %	13	78	23	67
Infrared rejection @780 - 2500 nm %*	17	84	17	73
Light to solar heat gain ratio (VLT/SHGC)	1.04	.97	1.05	.62
Transmittance %	85	15	73	14
Absorptance %	7	41	14	46
Reflectance %	8	44	13	40
VISIBLE LIGHT.				
Transmittance %	90	22	82	20
Reflectance exterior %	8	40	15	42
Reflectance interior %	8	48	15	48
Glare reduction %	0	76	0	75
THERMAL ENERGY.				
Emissivity	.84	.33	.84	.33
Winter U-factor (W/m 2°C)	5.8	4.2	2.8	2.4
Winter heat loss reduction %	0	26	0	15
ULTRAVIOLET LIGHT.				
Blocked @300 to 380 nm %	36	>99	51	>99
FADE CONTROL.				
Fade control UV Tdw-ISO @300 - 700 nm %**	85	18	74	16
Fade reduction %	0	79	0	78

FILM PERFORMANCE. (4MM SINGLE CLEAR)