



# SUNGUARD

WINDOW FILMS

# SPECIFICATION.

WINDOW FILM TYPE: SILVER REFLECTIVE 35 - MEDIUM

### SILVER REFLECTIVE.

Sunguard Reflective Window Film range consists of solar control and privacy window films with a reflective appearance. Used where both high levels of heat and glare reduction are essential. Rejects up to 65% of solar energy, helping reduce heat build-up, and energy costs, increasing occupant comfort. Rejects up to 62% 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/cm<sup>2</sup>  
Melting point: 260 – 265 °C

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

\*\*T<sub>dw</sub>-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: **65%**

GLARE REDUCTION. UP TO: **62%**

UV REJECTED. UP TO: **99%**

### PERFORMANCE PARAMETERS FOR DIFFERENT WINDOW TYPES

	4MM SINGLE CLEAR		4/12/4MM DOUBLE CLEAR	
	NO FILM	WITH FILM	NO FILM	WITH FILM
<b>SOLAR ENERGY.</b>				
Solar heat gain coefficient (G-value)	.87	.35	.77	.43
Solar heat gain reduction %	0	60	0	44
Total solar energy rejected %	13	65	23	57
Infrared rejection @780 - 2500 nm %*	17	71	17	62
Light to solar heat gain ratio (VLT/SHGC)	1.04	.99	1.05	.74
Transmittance %	85	26	73	24
Absorptance %	7	38	14	41
Reflectance %	8	36	13	35
<b>VISIBLE LIGHT.</b>				
Transmittance %	90	34	82	32
Reflectance exterior %	8	38	15	40
Reflectance interior %	8	36	15	37
Glare reduction %	0	62	0	61
<b>THERMAL ENERGY.</b>				
Emissivity	.84	.73	.84	.73
Winter U-factor (W/m <sup>2</sup> °C)	5.8	5.5	2.8	2.7
Winter heat loss reduction %	0	5	0	3
<b>ULTRAVIOLET LIGHT.</b>				
Blocked @300 to 380 nm %	36	>99	51	>99
<b>FADE CONTROL.</b>				
Fade control UV T <sub>dw</sub> -ISO @300 - 700 nm %**	85	28	74	26
Fade reduction %	0	67	0	65

### FILM PERFORMANCE. (4MM SINGLE CLEAR)

