



SUNGUARD

WINDOW FILMS

SPECIFICATION.

WINDOW FILM TYPE: DUAL REFLECTIVE - SILVER & GREY 40 - LIGHT

SILVER REFLECTIVE.

Sunguard Dual-Reflective Window Film range consists of solar control and privacy window films with a reflective exterior, and a grey neutral interior appearance. Used where both high levels of heat and glare reduction are essential. Rejects up to 54% of solar energy, helping reduce heat build-up, and energy costs, increasing occupant comfort. Rejects up to 57% 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: **54%**

GLARE REDUCTION, UP TO: **57%**

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
SOLAR ENERGY.				
Solar heat gain coefficient (G-value)	.87	.46	.77	.55
Solar heat gain reduction %	0	46	0	29
Total solar energy rejected %	13	54	23	45
Infrared rejection @780 - 2500 nm %*	17	53	17	50
Light to solar heat gain ratio (VLT/SHGC)	1.04	.84	1.05	.65
Transmittance %	85	36	73	32
Absorptance %	7	45	14	46
Reflectance %	8	19	13	22
VISIBLE LIGHT.				
Transmittance %	90	39	82	36
Reflectance exterior %	8	14	15	20
Reflectance interior %	8	10	15	11
Glare reduction %	0	57	0	56
THERMAL ENERGY.				
Emissivity	.84	.75	.84	.75
Winter U-factor (W/m ² °C)	5.8	5.5	2.8	2.8
ULTRAVIOLET LIGHT.				
Blocked @300 to 380 nm %	36	>99	51	>99
FADE CONTROL.				
Fade control UV T _{dw} -ISO @300 - 700 nm %**	85	28	74	25
Fade reduction %	0	67	0	66

FILM PERFORMANCE. (4MM SINGLE CLEAR)

