



# SUNGUARD

WINDOW FILMS

# SPECIFICATION.

## WINDOW FILM TYPE: BRONZE REFLECTIVE 35 - MEDIUM

### BRONZE 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 70% of solar energy, helping reduce heat build-up, and energy costs, increasing occupant comfort. Rejects up to 61% 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:	GLARE REDUCTION. UP TO:	UV REJECTED. UP TO
<b>70%</b>	<b>61%</b>	<b>99%</b>

### 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	.30	.77	.39
Solar heat gain reduction %	0	66	0	50
Total solar energy rejected %	13	70	23	61
Infrared rejection @780 - 2500 nm %*	17	81	17	73
Light to solar heat gain ratio (VLT/SHGC)	1.04	1.17	1.05	.82
Transmittance %	85	22	73	20
Absorptance %	7	36	14	41
Reflectance %	8	42	13	39
<b>VISIBLE LIGHT.</b>				
Transmittance %	90	35	82	32
Reflectance exterior %	8	29	15	32
Reflectance interior %	8	27	15	28
Glare reduction %	0	61	0	61
<b>THERMAL ENERGY.</b>				
Emissivity	.84	.68	.84	.68
Winter U-factor (W/m <sup>2</sup> °C)	5.8	5.3	2.8	2.7
<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	21	74	19
Fade reduction %	0	75	0	74

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

