



Solar Gard® Solar Control Window Films

Sterling 50

Performance Results

4 mm 4/12/4 mm

Visible Light

TR (%)	Transmittance	49	45
Re/Ri (%)	Reflectance Exterior/Interior	26/24	30/26
GL (%)	Glare Reduction	45	44

Solar Energy

TR (%)	Transmittance	36	32
A (%)	Absorptance	33	37
R (%)	Reflectance	31	31
SIRR (%)	Selective IR Energy Rejection @280-2500nm	82	-
IRER (%)	IR Energy Rejection @780-2500nm	67	61
UV (%)	Blocked @300-380nm	>99	>99
G (%)	Solar heat gain coefficient (G-value)	.43	.49
SSI	Light to solar heat gain ratio (VLT/SHGC)	1.14	.92
TSER (%)	Total solar energy rejected	57	51
TSER (%) -60°	Total solar energy rejected @60° angle	62	58
SSHGR (%)	Solar heat gain reduction	50	36
E	Emissivity		.69
U	Winter U-factor (W/m2 °C)	5.3	2.7
TdW (%)	Fading factor (Tdw-ISO @300-700nm)	38	35
FR (%)	Fade reduction coefficient	55	53

Physical Properties

Tnom / T(μm)	Nominal thickness	50
TS - kg/cm ²	Tensile strength	2110 kg/cm ²
Reaction to Fire (SBI EN 13823)		B-s1, d0
Reaction to Fire (EN 45545)		R1, HL1/HL2, HL3

