

Standard

**EN410**

Select product

**Silver 20**

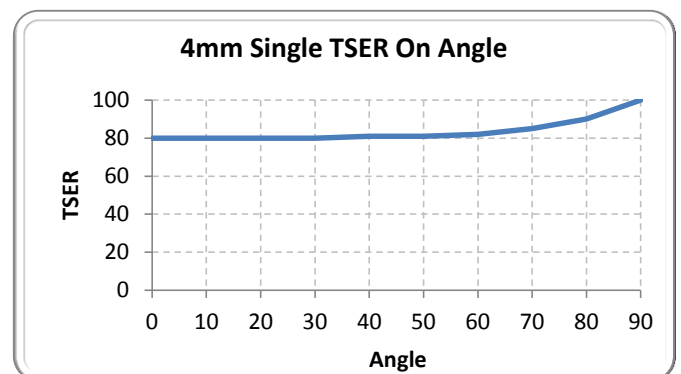
	4mm Single Clear	6mm Single Clear	4mm Double Clear	6mm Double Clear	6mm Double Low-E S#2	6mm Double Low-E S#3	4mm Triple Clear	4mm Triple LE S#2&5
<b>Performance results</b>								
<b>Visible light</b>								
Transmittance %	16	16	15	15	13	14	15	13
Reflectance exterior %	58	57	58	56	40	50	57	47
Reflectance interior %	58	58	59	59	59	59	59	59
Glare reduction %	82	82	81	81	81	82	80	81
<b>Solar energy</b>								
Transmittance %	12	12	11	10	7	9	10	8
Absorptance %	35	39	41	47	52	48	45	48
Reflectance %	53	49	48	43	41	43	45	44
Solar heat gain coefficient (G-value)	,20	,20	,30	,31	,22	,37	,34	,32
Light to solar heat gain ratio (VLT/SHGC)	,82	,79	,51	,49	,58	,39	,43	,42
Total solar energy rejected %	80	80	70	69	78	63	66	68
Total solar energy rejected % @60°	82							
Solar heat gain reduction %	77	76	61	58	47	40	52	38
<b>Thermal energy</b>								
Emissivity	,70	,70	,70	,70	,70	,70	,70	,70
Winter U-factor (W/m <sup>2</sup> °C)	5,4	5,3	2,7	2,7	1,1	1,1	1,8	0,6
Winter heat loss reduction %	7	7	4	4	2	2	3	0
<b>Ultraviolet light</b>								
Blocked @ 300 to 380 nm %	>99	>99	>99	>99	>99	>99	>99	>99
<b>Fade control</b>								
UV Tdw-ISO @ 300 to 700 nm %	14	14	13	13	11	12	12	11
Fade Reduction %	84	83	82	82	80	82	82	81

**IR rejection**

780 to 2500nm	94	95
---------------	----	----

**Physical properties**

Thickness (microns)	50	microns
Tensile Strength ASTM D 882	2110	kg/cm <sup>2</sup>
Elongation ASTM D 882	>100	%
Yield Stress (5%) ASTM D 882	1100	kg/cm <sup>2</sup>
Break Strength ASTM D 882	11,0	kg/cm
Yield Strength (5%) ASTM D 882	5,4	kg/cm
Tear Strength (Graves) ASTM D 1004	1,5	kg
Tensile Modulus ASTM D 882	35000	kg/cm <sup>2</sup>
Puncture Strength ASTM D 4830	15,0	kg
Peel Strength ASTM D 903	>985	g/cm
Poisson's Ratio ASTM D 882	0,38	
Abrasion Resistance (100 Cycles) ASTM D 1003-92, ASTM D 1044	<5	%


**Performance results notes:**

Calculated using LBNL Window 7.2 according to EN410 and EN673.

IR rejection = 1 - average unweighted transmittance