

Standard

**EN410**

Select product

**4 Mil Clear**

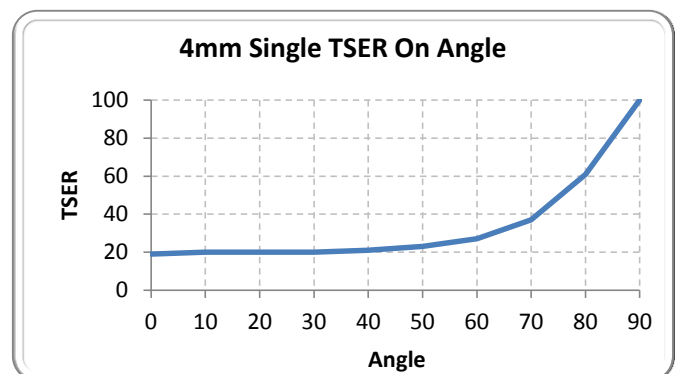
	4mm Single Clear	6mm Single Clear	4mm Double Clear	6mm Double Clear	6mm Double Low-E S#2	6mm Double Low-E S#3	4mm Triple Clear	4mm Triple LE S#2&5
<b>Performance results</b>								
<b>Visible light</b>								
Transmittance %	88	87	80	78	66	75	73	68
Reflectance exterior %	10	10	16	16	12	14	22	16
Reflectance interior %	10	10	16	16	14	14	22	17
Glare reduction %	2	2	2	2	2	4	2	4
<b>Solar energy</b>								
Transmittance %	78	75	67	63	35	51	59	41
Absorptance %	13	16	19	23	36	26	23	30
Reflectance %	9	9	14	14	29	23	18	29
Solar heat gain coefficient (G-value)	,81	,79	,75	,72	,40	,63	,68	,50
Light to solar heat gain ratio (VLT/SHGC)	1,08	1,10	1,07	1,09	1,66	1,19	1,07	1,36
Total solar energy rejected %	19	21	25	28	60	37	32	50
Total solar energy rejected % @60°	27							
Solar heat gain reduction %	6	6	3	3	2	-2	2	0
<b>Thermal energy</b>								
Emissivity	,96	,96	,96	,96	,96	,96	,96	,96
Winter U-factor (W/m <sup>2</sup> °C)	6,1	6,0	2,9	2,9	1,2	1,2	1,9	0,6
Winter heat loss reduction %	-5	-5	-3	-3	-2	-2	-2	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 %	63	62	57	56	47	53	52	48
Fade Reduction %	26	24	23	21	16	20	21	17

**IR rejection**

780 to 2500nm	24	28
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**Physical properties**

Thickness (microns)	100	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	22,0	kg/cm
Yield Strength (5%) ASTM D 882	10,8	kg/cm
Tear Strength (Graves) ASTM D 1004	3,0	kg
Tensile Modulus ASTM D 882	35000	kg/cm <sup>2</sup>
Puncture Strength ASTM D 4830	30,0	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