

Standard

EN410

Select product

14 Mil Clear

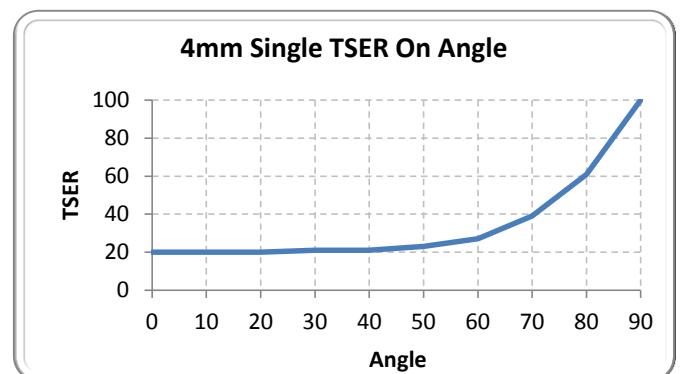
	4mm Single Clear	6mm Single Clear	4mm Double Clear	6mm Double Clear	6mm Double Low-E S#2	6mm Double Low-E S#3	4mm Triple Clear	4mm Triple LE S#2&5
Performance results								
Visible light								
Transmittance %	87	86	79	78	66	75	73	68
Reflectance exterior %	12	12	18	17	13	15	23	17
Reflectance interior %	12	12	18	18	16	16	23	19
Glare reduction %	3	3	3	3	3	5	3	5
Solar energy								
Transmittance %	77	74	67	62	35	51	58	40
Absorptance %	13	16	18	24	36	26	23	31
Reflectance %	10	10	15	14	29	23	19	29
Solar heat gain coefficient (G-value)	,80	,78	,74	,71	,39	,62	,68	,50
Light to solar heat gain ratio (VLT/SHGC)	1,09	1,11	1,07	1,09	1,67	1,20	1,07	1,37
Total solar energy rejected %	20	22	26	29	61	38	32	50
Total solar energy rejected % @60°	27							
Solar heat gain reduction %	8	7	5	4	4	-1	4	1
Thermal energy								
Emissivity	,94	,94	,94	,94	,94	,94	,94	,94
Winter U-factor (W/m ² °C)	6,0	5,9	2,9	2,8	1,1	1,1	1,8	0,6
Winter heat loss reduction %	-4	-4	-2	-2	-1	-1	-1	0
Ultraviolet light								
Blocked @ 300 to 380 nm %	>99	>99	>99	>99	>99	>99	>99	>99
Fade control								
UV Tdw-ISO @ 300 to 700 nm %	62	62	56	55	46	53	51	48
Fade Reduction %	27	24	24	23	18	20	23	17

IR rejection

780 to 2500nm	32	35
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Physical properties

Thickness (microns)	350	microns
Tensile Strength ASTM D 882	2110	kg/cm ²
Elongation ASTM D 882	>100	%
Yield Stress (5%) ASTM D 882	1100	kg/cm ²
Break Strength ASTM D 882	77,0	kg/cm
Yield Strength (5%) ASTM D 882	37,8	kg/cm
Tear Strength (Graves) ASTM D 1004	10,5	kg
Tensile Modulus ASTM D 882	35000	kg/cm ²
Puncture Strength ASTM D 4830	105,0	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