

Standard

EN410

Select product

Natural Esave 70 Low-E interior

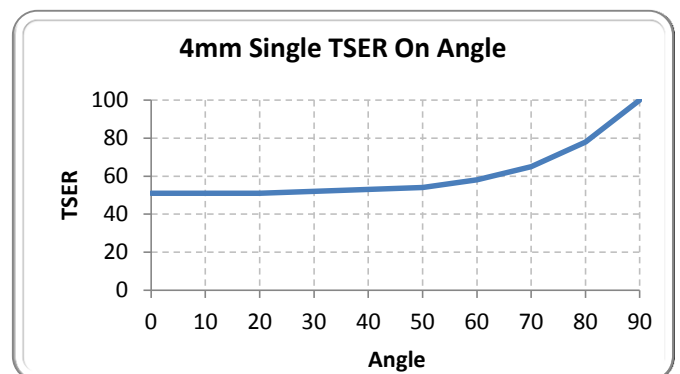
	4mm Single Clear	6mm Single Clear	4mm Double Clear	6mm Double Clear	6mm Double Low-E S#2	6mm Double Low-E S#3	4mm Triple Clear	4mm Triple LE S#2&5
Performance results								
Visible light								
Transmittance %	68	68	62	61	52	58	57	53
Reflectance exterior %	13	12	18	18	14	16	23	18
Reflectance interior %	4	4	7	7	6	6	11	8
Glare reduction %	24	24	24	24	24	26	24	25
Solar energy								
Transmittance %	45	43	39	37	25	33	35	28
Absorptance %	30	34	35	40	45	41	38	42
Reflectance %	25	23	26	23	30	26	27	30
Solar heat gain coefficient (G-value)	,49	,48	,52	,51	,36	,54	,51	,46
Light to solar heat gain ratio (VLT/SHGC)	1,40	1,41	1,20	1,20	1,43	1,08	1,11	1,15
Total solar energy rejected %	51	52	48	49	64	46	49	54
Total solar energy rejected % @60°	58							
Solar heat gain reduction %	44	43	34	32	12	13	27	9
Thermal energy								
Emissivity	,09	,09	,09	,09	,09	,09	,09	,09
Winter U-factor (W/m ² °C)	3,4	3,4	2,1	2,1	1,0	1,0	1,5	0,6
Winter heat loss reduction %	40	40	26	25	14	14	19	7
Ultraviolet light								
Blocked @ 300 to 380 nm %	>99	>99	>99	>99	>99	>99	>99	>99
Fade control								
UV Tdw-ISO @ 300 to 700 nm %	41	40	37	36	30	35	34	31
Fade Reduction %	52	51	50	49	46	47	48	47

IR rejection

780 to 2500nm	87	88
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Physical properties

Thickness (microns)	75	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	16,5	kg/cm
Yield Strength (5%) ASTM D 882	8,1	kg/cm
Tear Strength (Graves) ASTM D 1004	2,3	kg
Tensile Modulus ASTM D 882	35000	kg/cm ²
Puncture Strength ASTM D 4830	22,7	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