

Standard

**EN410**

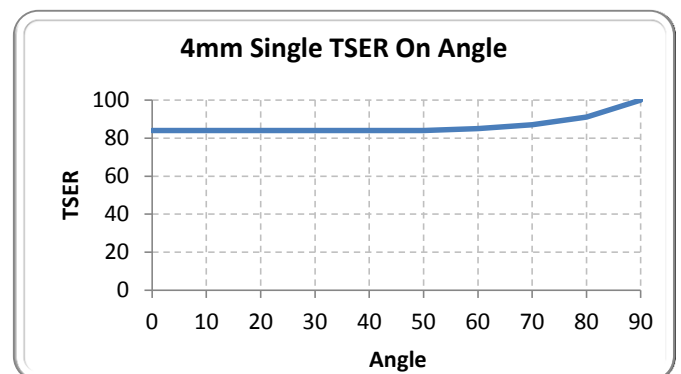
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**TrueVue 5**

	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 %	5	5	5	5	4	5	5	4
Reflectance exterior %	45	44	46	45	32	40	47	38
Reflectance interior %	8	8	8	8	8	8	8	8
Glare reduction %	94	94	94	94	94	94	94	94
<b>Solar energy</b>								
Transmittance %	6	5	5	5	2	4	4	3
Absorptance %	47	51	52	57	60	57	55	57
Reflectance %	47	44	43	38	38	39	41	40
Solar heat gain coefficient (G-value)	,16	,17	,31	,32	,25	,40	,35	,35
Light to solar heat gain ratio (VLT/SHGC)	,32	,30	,16	,15	,16	,11	,13	,12
Total solar energy rejected %	84	83	69	68	75	60	65	65
Total solar energy rejected % @60°	85							
Solar heat gain reduction %	81	80	60	58	40	35	49	31
<b>Thermal energy</b>								
Emissivity	,75	,75	,75	,75	,75	,75	,75	,75
Winter U-factor (W/m <sup>2</sup> °C)	5,5	5,4	2,8	2,7	1,1	1,1	1,8	0,6
Winter heat loss reduction %	4	4	2	2	1	1	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 %	5	4	4	4	3	4	4	4
Fade Reduction %	94	95	95	94	95	94	94	93
<b>IR rejection</b>								
780 to 2500nm	96	96						

**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