

Standard

EN410

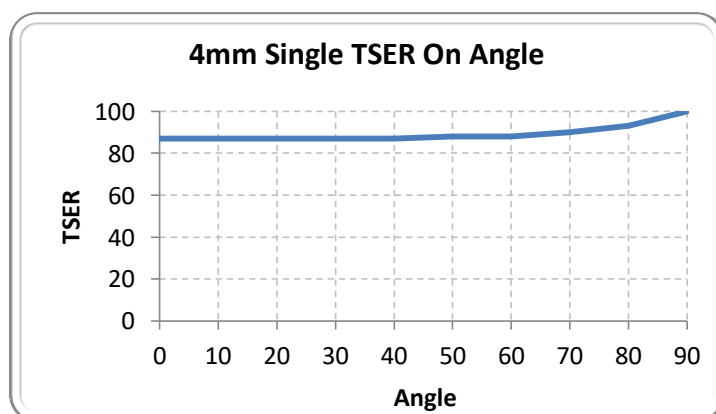
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Sentinel Plus ODX 15 OSW

	4mm Single Clear	6mm Single Clear	4mm Double Clear	6mm Double Clear	6mm Double LE S#2	6mm Double LE S#3	4mm Triple Clear	4mm Triple LE S#2&5
Performance results								
Visible light								
Transmittance %	14	14	13	13	11	12	12	11
Reflectance exterior %	42	42	42	42	42	42	42	42
Reflectance interior %	17	17	22	22	18	19	26	21
Glare reduction %	84	84	84	84	84	84	84	84
Solar energy								
Transmittance %	14	13	12	11	6	9	10	8
Absorptance %	41	42	43	44	48	46	45	47
Reflectance %	45	45	45	45	46	45	45	45
Solar heat gain coefficient (G-value)	,23	,23	,18	,17	,09	,13	,15	,10
Light to solar heat gain ratio (VLT/SHGC)	,60	,60	,73	,74	1,18	,97	,79	1,12
Total solar energy rejected %	77	77	82	83	91	87	85	90
Total solar energy rejected % @60°	79	-	85	86	-	87	88	-
Solar heat gain reduction %	73	73	77	77	78	79	79	80
Thermal energy								
Emissivity	,72	,72	,72	,72	,72	,72	,72	,72
Winter U-factor (W/m²°C)	5,7	5,7	2,8	2,8	1,1	1,3	1,9	0,6
Winter heat loss reduction %	0	0	0	1	7	0	0	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 %	11	11	10	10	8	9	9	8
Fade Reduction Factor	87	87	86	86	86	86	86	85
IR rejection (780-2500nm)								
IRER Infrared Energy Rejected %	79	80	84	85	92	94	87	90
SIIR Selective Infrared Energy Rejected %	91	91	92	92	93	95	93	-

Physical properties

Thickness (microns)	50	microns
Tensile Strength ASTM D 882	2110	kg/cm²
Elongation ASTM D 882	>100	%
Yield Stress (5%) ASTM D 882	1100	kg/cm²
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/cm²
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 according to EN410 and EN673.

IRER (Infrared Energy Rejected) = 1 - energy transmitted, absorbed and reradiated (IWFA endorsed method)

SIIR (Selective Infrared Rejection) = 1 - average unweighted transmittance