

Performance Results

Standard

EN410

Select product

Sentinel Plus Silver 20 OSW

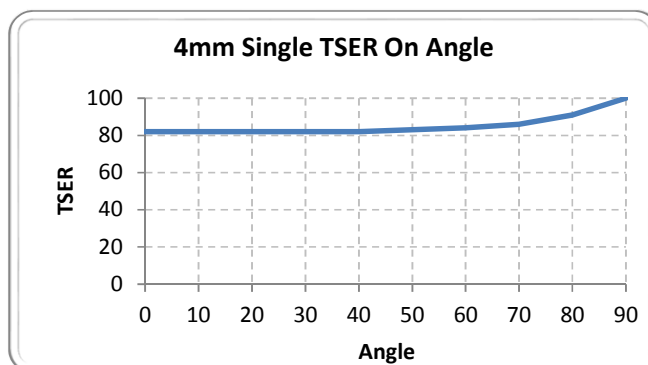
	4mm Single Clear	6mm Single Clear	4mm Double Clear	6mm Double Clear	6mm Double Low-E S#2	6mm Double Low-E S#3	4mm Triple Clear	4mm Triple LE S#2&5
Performance results								
Visible light								
Transmittance %	16	16	15	15	12	14	14	13
Reflectance exterior %	61	61	62	62	62	62	62	62
Reflectance interior %	58	57	57	55	41	49	57	46
Glare reduction %	82	82	82	82	82	82	81	82
Solar energy								
Transmittance %	12	12	11	10	7	9	10	8
Absorptance %	26	26	27	28	31	29	28	30
Reflectance %	62	62	62	62	62	62	62	62
Solar heat gain coefficient (G-value)	,18	,18	,14	,14	,09	,11	,13	,10
Light to solar heat gain ratio (VLT/SHGC)	,87	,88	1,04	1,05	1,35	1,24	1,13	1,32
Total solar energy rejected %	82	82	86	86	91	89	87	90
Total solar energy rejected % @60°	84							
Solar heat gain reduction %	79	79	81	81	78	82	82	81
Thermal energy								
Emissivity	,76	,76	,76	,76	,04	,76	,76	,04
Winter U-factor (W/m²°C)	5,7	5,7	2,8	2,8	1,1	1,1	1,8	0,6
Winter heat loss reduction %	0	0	0	0	0	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 %	13	13	13	12	10	12	12	11
Fade Reduction %	85	84	82	83	82	82	82	81

IR rejection

780 to 2500nm	96	96
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Physical properties

Thickness (microns)	50	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	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 ²
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