

Standard

EN410

Select product

Sentinel Plus Silver 35 OSW

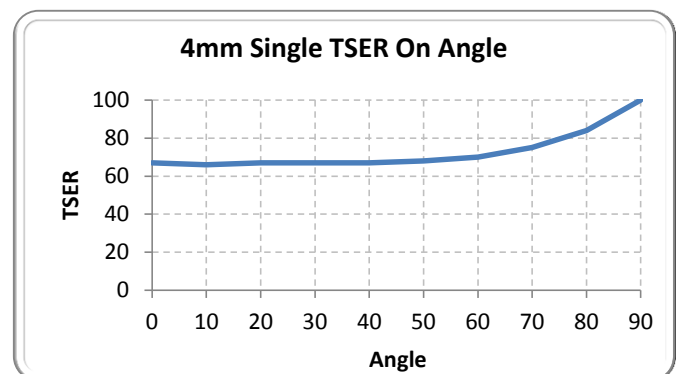
| | 4mm Single Clear | 6mm Single Clear | 4mm Double Clear | 6mm Double Clear | 6mm Double Low-E S#2 | 6mm Double Low-E S#3 | 4mm Triple Clear | 4mm Triple LE S#2&5 |
|---|------------------------|------------------------|------------------------|------------------------|----------------------------|----------------------------|------------------------|---------------------------|
| Performance results | | | | | | | | |
| Visible light | | | | | | | | |
| Transmittance % | 34 | 34 | 31 | 31 | 26 | 30 | 29 | 27 |
| Reflectance exterior % | 41 | 41 | 42 | 42 | 41 | 41 | 43 | 42 |
| Reflectance interior % | 37 | 36 | 39 | 38 | 29 | 33 | 41 | 33 |
| Glare reduction % | 62 | 62 | 62 | 62 | 63 | 62 | 61 | 62 |
| Solar energy | | | | | | | | |
| Transmittance % | 26 | 25 | 23 | 22 | 15 | 18 | 21 | 16 |
| Absorptance % | 31 | 32 | 33 | 34 | 40 | 37 | 35 | 39 |
| Reflectance % | 43 | 43 | 44 | 44 | 45 | 45 | 44 | 45 |
| Solar heat gain coefficient (G-value) | ,33 | ,33 | ,28 | ,27 | ,17 | ,23 | ,25 | ,20 |
| Light to solar heat gain ratio (VLT/SHGC) | 1,01 | 1,02 | 1,12 | 1,13 | 1,47 | 1,30 | 1,17 | 1,37 |
| Total solar energy rejected % | 67 | 67 | 72 | 73 | 83 | 77 | 75 | 80 |
| Total solar energy rejected % @60° | 70 | | | | | | | |
| Solar heat gain reduction % | 61 | 61 | 64 | 64 | 57 | 63 | 64 | 61 |
| Thermal energy | | | | | | | | |
| Emissivity | ,78 | ,78 | ,78 | ,78 | ,78 | ,78 | ,78 | ,78 |
| Winter U-factor (W/m ² °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 % | 27 | 26 | 24 | 24 | 20 | 23 | 23 | 21 |
| Fade Reduction % | 68 | 68 | 68 | 66 | 64 | 65 | 65 | 64 |

IR rejection

| | | |
|---------------|----|----|
| 780 to 2500nm | 92 | 92 |
|---------------|----|----|

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