

Standard

EN410

Select product

Silver 50

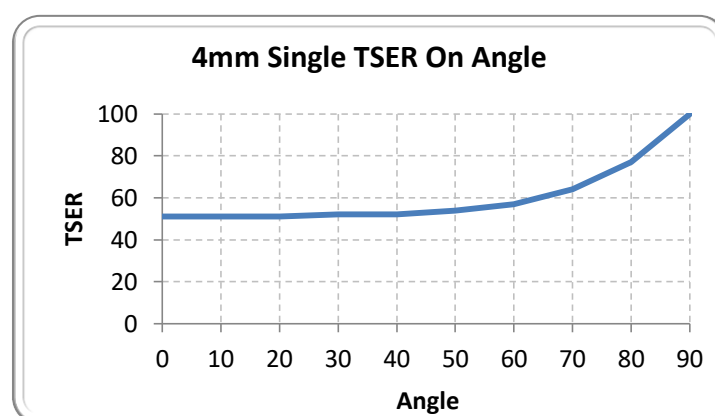
	4mm Single Clear	6mm Single Clear	4mm Double Clear	6mm Double Clear	6mm Double LE S#2	6mm Double LE S#3	4mm Triple Clear	4mm Triple LE S#2&5
Performance results								
Visible light								
Transmittance %	53	52	49	48	40	46	45	42
Reflectance exterior %	23	22	27	26	19	24	30	24
Reflectance interior %	22	22	24	24	23	23	26	24
Glare reduction %	41	41	41	41	41	42	40	41
Solar energy								
Transmittance %	41	39	36	34	21	29	32	24
Absorptance %	36	39	39	43	47	43	42	43
Reflectance %	23	22	25	23	32	28	26	33
Solar heat gain coefficient (G-value)	,49	,48	,55	,54	,34	,54	,54	,45
Light to solar heat gain ratio (VLT/SHGC)	1,08	1,08	,88	,88	1,17	,84	,82	,93
Total solar energy rejected %	51	52	45	46	66	46	46	55
Total solar energy rejected % @60°	57	-	53	-	-	-	-	-
Solar heat gain reduction %	44	43	29	28	17	10	22	11
Thermal energy								
Emissivity	,77	,77	,77	,77	,77	,77	,77	,77
Winter U-factor (W/m²°C)	5,6	5,5	2,8	2,7	1,1	1,1	1,8	0,6
Winter heat loss reduction %	3	3	1	2	9	10	5	3
Ultraviolet light								
Blocked @ 300 to 380 nm %	>99	>99	>99	>99	>99	>99	>99	>99
Fade control								
UV Tdw-ISO @ 300 to 700 nm %	40	40	37	36	30	34	34	31
Fade Reduction Factor	53	51	50	49	47	47	48	44

IR rejection (780-2500nm)

IRER Infrared Energy Rejected %	58	59	52	53	90	63	52	77
SIRR Selective Infrared Energy Rejected %	74	76	82	-	-	-	-	-

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 according to EN410 and EN673.

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

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