

Heat & Light Control Characteristics

Color Description	Solar Transmittance (%)	Visible Light Transmittance (%)	Visible Light Reflectance (%)	Shading Coefficient (SC)	Solar Heat Gain Coefficient (SHGC)	U-Factor BTU/hr-ft²-F	Reflective Hea Gain (RHG) BTU/hr-ft ² 197	
0.015 inch Clear Saflex	73	89	8	0.91	0.78	1.07		
0.030 inch Clear Saflex	72	88	8	0.90	0.77	1.06	194	
0.045 inch Clear Saflex	69	88	8	0.88	0.75	1.05	190	
0.060 inch Clear Saflex	70	88	8	0.88	0.76	1.04	190	
0.090 inch Clear Saflex	67	88	8	0.86	0.74	1.02	185	
0.100 inch Clear Saflex HP	66	87	8	0.85	0.73	1.01	184	
0828 Blue-Gray	37	30	5	0.62	0.53	1.07	139	
0855 Light Blue-Gray	51	52	6	0.73	0.62	1.07	160	
3609 Dark Neutral Brown	15	9	5	0.44	0.38	1.07	103	
3628 Neutral Medium Brown	32	29	5	0.58	0.50	1.07	131	
3655 Neutral Light Brown	52	56	6	0.73	0.63	1.07	162	
3773 Light Blue-Green*	62	71	7	0.82	0.70	1.06	178	
5538 Light Bronze**	40	38	5	0.64	0.55	1.06	142	
5558 Light Bronze	50	52	6	0.72	0.62	1.07	183	
6376 Cool Blue	65	74	7	0.84	0.72	1.07	183	
6428 Medium Bronze	34	28	5	0.59	0.51	1.07	134	
6452 Light Bronze*	49	52	6	0.71	0.61	1.06	157	
6544 Gray*	47	43	5	0.69	0.60	1.06	154	
7558 Sky Blue	57	53	6	0.78	0.67	1.07	171	

Information provided by Solutia Inc. The data and information set forth above are based on samples tested and are not guaranteed for all samples or applications. All data calculated using Lawrence Berkeley Laboratory Window 4.1 Program; NFRC/ASHRAE Conditions; center of glass values; US Standard and Metric units.

Tinted laminates composed of 0.38 mm (0.015 in.) Saflex Interlayer unless marked with (*) which indicates 0.76 mm (0.030 in.) Solutia Interlayer. (**) indicates interlayer only available in 0.76 mm (0.030 in.) thickness.

Laminates constructed with 3 mm (0.125 in.) Clear Glass (Saflex Interlayer) 3 mm (0.125 in.) Clear Glass.







Glass-11	Glass-2 ²	PVB	Τ∨%	Ts%	Rs%	SHGC ³	SC ³
0.000	0.000 2	Nonsolar Clear or Vanceva				0.100	
		Solar (VS) Color					
Clear	Clear	RB41 Clear	87.9	65.4	6.5	0.73	0.85
		VS-Green	68.8	42.6	5.7	0.57	0.66
		VS-Blue	48.1	33.2	5.8	0.50	0.58
		VS-Gray	46.6	30.4	5.3	0.48	0.56
Tinted	Clear	RB41 Clear	65.0	30.2	5.3	0.48	0.55
Green		VS-Green	51.9	21.9	5.2	0.42	0.48
		VS-Blue	37.8	17.3	4.9	0.38	0.45
		VS-Gray	35.2	15.6	4.5	0.37	0.66 0.58 0.55 0.48 0.45 0.43 0.55 0.49 0.45 0.43 0.59 0.49 0.44 0.44 0.68 0.54 0.54 0.54 0.43 0.54 0.44 0.44 0.36 0.31 0.30
Tinted	Clear	RB41 Clear	67.3	29.5	5.3	0.47	0.55
Blue	inder die traditioner	VS-Green	54.3	22.1	4.7	0.42	0.49
		VS-Blue	40.3	17.6	4.6	0.39	0.45
		VS-Gray	36.6	15.5	4.5	0.37	0.43
Tinted	Clear	RB41 Clear	43.1	34.4	5.0	0.51	0.59
Gray	Ken Cristianse	VS-Green	34.3	22.9	4.8	0.42	0.49
		VS-Blue	24.9	18.7	4.6	0.39	0.46
		VS-Gray	23.3	16.5	4.4	0.38	
Pyrolitic	Clear	RB41 Clear	75.0	53.0	7.3	0.58	0.68
Hard Coat	The strengthere	VS-Green	64.9	38.3	7.3	0.46	0.54
Low E		VS-Blue	42.1	26.7	6.3	0.37	0.43
Glass		VS-Gray	40.1	24.1	6.6	0.34	0.40
Pyrolitic	Tinted	RB41 Clear	60.5	27.3	4.7	0.38	0.44
Hard Coat	Green	VS-Green	48.2	19.4	5.6	0.31	0.36
Low E		VS-Blue	31.9	13.6	4.8	0.27	0.31
Glass		VS-Gray	31.3	13.0	4.8	0.26	0.30
Pyrolitic	Tinted	RB41 Clear	62.1	26.7	5.0	0.37	0.43
Hard Coat	Blue	VS-Green	50.2	19.7	5.1	0.31	0.36
Low E		VS-Blue	33.3	13.8	4.8	0.27	
Glass		VS-Gray	30.4	13.0	4.8	0.25	
Pyrolitic	Tinted	RB41 Clear	39.7	30.0	4.9	0.40	0.46
Hard Coat	Gray	VS-Green	31.6	19.2	5.3	0.31	0.36
Low E		VS-Blue	20.5	13.3	4.9	0.26	0.30
Glass		VS-Gray	19.7	12.3	5.0	0.25	0.29

NOTES:

Ts, Rs calculated using ISO 9050 Air mass 1.

3 mm clear glass, 6 mm tinted glass and 3 mm pyrolitic hard coat LowE glass used in above examples

 $1.\,\text{G}\,\text{lass}\,1$ is facing the interior of the building with the coated side on surface #4

2. Glass 2 is facing the sun

3.SHGC (Solar Heat Gain Coefficient) and SC (Shading Coefficient) are calculated using published emissivity of specific pyrolitic hard coat LowE glass

* concept car

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Vanceva Color Interlayer Solar Property Data

SOLAR PROPERTIES DATA												
¥anceva Layer Code	Color Name	Humber of Yanceva Layers2; (Interlayer Thickness)	Interlayer Designation	Solar Transmittance	Visible Light Transmittance	Visible Reflectance (front)	Absorbed Solar	Transmitted UV	U-Factor BTU/hr-ft2-F	Shading Coefficient (SC)	Solar Coefficient Heat Gain (SHGC)	Light to Solar Gain (LSG)
0001	Coral Rose	1; (0.015 in)	015_8078	0.70	0.76	0.07	0.23	0.006	1.01	88.0	0.77	0.99
0002	Aquamarine	1; (0.015 in)	015_8278	0.69	0.77	0.07	0.25	0.008	1.01	0.87	0.76	1.02
0003	Smoke Grey	1; (0.015 in)	015_8378	0.67	0.78	0.07	0.27	0.009	1.01	0.86	0.75	1.04
0004	Sahara Sun	1; (0.015 in)	015_8178	0.63	0.78	0.08	0.30	0.000	1.01	0.83	0.72	1.08
0005	Ruby Red	1; (0.015 in)	015_8050	0.62	0.48	0.06	0.31	0.003	1.01	0.83	0.72	0.67
0006	Sapphire Blue	1; (0.015 in)	015_8250	0.55	0.52	0.06	0.38	0.001	1.01	0.77	0.67	0.77
0007	Evening Shadow	1; (0.015 in)	015_8350	0.48	0.49	0.05	0.47	0.003	1.01	0.72	0.62	0.80
0008	Golden Light	1; (0.015 in)	015_8186	0.69	0.85	0.08	0.25	0.000	1.01	88.0	0.76	1.12
0009	Arotic S now	1; (0.015 in)	015_2165	0.60	83.0	0.16	0.28	0.001	1.01	0.78	83.0	1.00
000A	Cool White	1; (0.015 in)	015_2180	0.67	0.81	0.14	0.22	0.005	1.01	0.85	0.74	1.11
000 B	Pure White	1; (0.032 in)	032_2107	0.08	0.07	0.61	0.44	0.001	1.00	0.25	0.21	0.30
000 C	True Blue	1; (0.015 in)	015_8515	0.38	0.15	0.06	0.56	0.001	1.01	6.63	0.54	0.28
000 D	Deep Red	1; (0.015 in)	015_8414	0.42	0.12	0.04	0.51	0.001	1.01	0.66	0.57	0.20
000 E	Tangerine	1; (0.015 in)	015_8641	0.54	0.41	0.08	0.39	0.000	1.01	0.75	0.65	0.64

1 Reported solar properties calculated using laminate spectral data and Lawrence Berkeley Hational Laboratory Window 5.2 Program; Laminates comprised of two pieces of 1/8 in clear glass plus interlayer. NFRC/ASHRAE Conditions; conter of glass values; US Standard units.

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2 Humber of single thickness interlayer sheets used to achieve the color.



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