

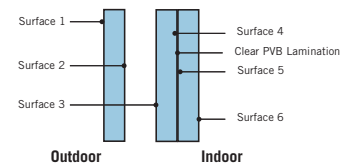


Insulating Glass Unit* ¹ (1/4" outdoor lite as noted below + 1/2" airspace + 1/4" • clear glass + 0.060" clear PVB + 1/4" clear glass)											
Product Type and Description	Transmittance		Reflectance		U-Value ² (Imperial)		K-Value ² (Metric)		Shading Coefficient ³	Solar Heat Gain Coefficient ⁴	Light to Solar Gain (LSG) ⁵
	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time	Winter Night-time	Summer Day-time			
Uncoated											
Clear Glass	77	49	15	11	0.46	0.48	2.61	2.73	0.76	0.66	1.17
SOLEXIA™ Glass	67	32	13	8	0.46	0.48	2.61	2.73	0.54	0.47	1.43
ATLANTICA™ Glass	58	25	11	7	0.46	0.48	2.61	2.73	0.45	0.38	1.53
CARIBIA® Glass	59	24	11	6	0.46	0.48	2.61	2.73	0.41	0.37	1.59
AZURIA™ Glass	59	24	11	7	0.46	0.48	2.61	2.73	0.43	0.37	1.59
SOLARBRONZE® Glass	46	31	9	7	0.46	0.48	2.61	2.73	0.55	0.48	0.96
SOLARGRAY® Glass	38	26	8	7	0.46	0.48	2.61	2.73	0.49	0.43	0.88
OPTIGRAY® 23 Glass	20	12	5	5	0.46	0.48	2.61	2.73	0.32	0.28	0.71
GRAYLITE® II Glass	8	5	4	4	0.47	0.50	2.59	2.73	0.25	0.21	0.37
Coated (1) and (2) indicates the coating location											
Solar Control Low-E and Low-E Glasses											
SOLARBAN 60 (2) Clear	67	30	12	27	0.29	0.27	1.65	1.53	0.43	0.38	1.76
SOLARBAN 80 (2) Clear	46	18	33	38	0.28	0.26	1.59	1.48	0.27	0.24	1.92
SUNGATE 500 (2) Clear	71	43	16	13	0.34	0.34	1.93	1.93	0.68	0.59	1.20
SUNGATE 100 (2) Clear	71	38	12	20	0.30	0.29	1.70	1.65	0.58	0.50	1.42
SOLARCOOL® Reflective Glasses											
SOLARCOOL (1) SOLEXIA	26	15	37	30	0.46	0.48	2.61	2.73	0.30	0.25	1.04
SOLARCOOL (2) SOLEXIA	26	15	24	12	0.46	0.48	2.61	2.73	0.34	0.29	0.90
SOLARCOOL (1) CARIBIA	23	10	37	30	0.46	0.48	2.61	2.73	0.24	0.20	1.15
SOLARCOOL (2) CARIBIA	23	10	19	9	0.46	0.48	2.61	2.73	0.28	0.24	0.96
SOLARCOOL (1) AZURIA	23	10	37	30	0.46	0.48	2.61	2.73	0.23	0.20	1.15
SOLARCOOL (2) AZURIA	23	10	20	10	0.46	0.48	2.61	2.73	0.28	0.24	0.96
SOLARCOOL (1) Bronze	18	15	37	31	0.46	0.48	2.61	2.73	0.33	0.28	0.64
SOLARCOOL (2) Bronze	18	16	14	12	0.46	0.48	2.61	2.73	0.37	0.32	0.56
SOLARCOOL (1) Gray	15	13	37	30	0.46	0.48	2.61	2.73	0.30	0.25	0.60
SOLARCOOL (2) Gray	15	13	11	10	0.46	0.48	2.61	2.73	0.34	0.29	0.52
SOLARCOOL (1) GRAYLITE II	3	2	36	30	0.46	0.48	2.59	2.73	0.16	0.14	0.21
SOLARCOOL (2) GRAYLITE II	3	2	5	5	0.46	0.48	2.60	2.73	0.21	0.18	0.17

* Performance data is based on representative samples of factory production. Actual values may vary slightly due to variations in the production process.

- Figures may vary due to manufacturing tolerances. Performance data simulated using LBL Optics 5 and Window 5.2, with NFRC 100-2001 standard winter and summer design condition.
- U-value (K-value) is the overall coefficient of heat transmittance or heat flow measured in BTU/hr. • ft² • °F (watts/m²•°C). Lower U-values indicate better insulating performance.
- Shading coefficient is the ratio of the total amount of solar energy that passes through a glass relative to 1/8-in. (3.0mm) thick clear glass under the same design conditions.

- It includes both solar energy transmitted directly plus any absorbed solar energy re-radiated and convected. Lower shading coefficient values indicate better performance in reducing solar heat gain.
- Solar heat gain coefficient (SHGC) represents the solar heat gain through the glass relative to the incident solar radiation. It is equal to 86% of the shading coefficient.
- Light to Solar Gain ratio (LSG) is the ratio of visible light transmittance to solar heat gain coefficient.



For additional configurations on laminated Solarban 60 glass, see literature #7065 on the PPG Certified Laminator Program or visit www.ppgglazing.com or call 1-888-PPG-IDEA.

See other side for Selected Monolithic Laminated PPG Glass Combinations.



Thermal and Optical Properties of Selected Monolithic Laminated PPG Glass Combinations*

Monolithic** (1/4" Outdoor lite as noted below + 0.060" Clear PVB + 1/4" glass)											
Product Type and Description	Transmittance		Reflectance		U-Value ² (Imperial)		K-Value ² (Metric)		Shading Coefficient ³	Solar Heat Gain Coefficient ⁴	Light to Solar Gain (LSG) ⁵
	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time	Winter Night-time	Summer Day-time			
Uncoated											
Clear Glass	86	61	8	6	0.95	0.86	5.39	4.88	0.82	0.71	1.21
SOLEXIA™ Glass	75	39	7	5	0.95	0.86	5.39	4.88	0.65	0.56	1.34
ATLANTICA™ Glass	65	29	7	5	0.95	0.86	5.39	4.88	0.58	0.50	1.30
CARIBIA® Glass	66	28	7	5	0.95	0.86	5.39	4.88	0.57	0.49	1.35
AZURIA™ Glass	66	28	7	5	0.95	0.86	5.39	4.88	0.57	0.49	1.35
SOLARBRONZE® Glass	52	39	6	5	0.95	0.86	5.39	4.88	0.65	0.56	0.93
SOLARGRAY® Glass	43	33	6	5	0.95	0.86	5.39	4.88	0.61	0.52	0.83
OPTIGRAY® 23 Glass	23	15	5	5	0.95	0.86	5.39	4.88	0.48	0.41	0.56
GRAYLITE® II Glass	9	6	4	4	0.93	1.02	5.41	4.91	0.41	0.35	0.25
Coated											
SUNGATE® 500 Low-E Glass											
SUNGATE 500 (2) Clear	82	53	8	9	0.95	0.86	5.39	4.88	0.75	0.65	1.26
SUNGATE 500 (3) Clear	82	54	9	8	0.95	0.86	5.39	4.88	0.76	0.65	1.26
SUNGATE 500 (3) SOLEXIA	71	35	8	6	0.95	0.86	5.39	4.88	0.62	0.53	1.34
SUNGATE 500 (3) ATLANTICA	62	26	7	5	0.95	0.86	5.39	4.88	0.56	0.48	1.29
SUNGATE 500 (3) CARIBIA	62	25	7	5	0.95	0.86	5.39	4.88	0.55	0.47	1.32
SUNGATE 500 (3) AZURIA	63	25	7	5	0.95	0.86	5.39	4.88	0.55	0.47	1.34
SUNGATE 500 (3) SOLARBRONZE	49	34	6	6	0.95	0.86	5.39	4.88	0.61	0.53	0.92
SUNGATE 500 (3) SOLARGRAY	41	28	6	5	0.95	0.86	5.39	4.88	0.57	0.49	0.84
SUNGATE 500 (3) OPTIGRAY 23	21	13	5	5	0.95	0.86	5.39	4.88	0.46	0.39	0.54
SUNGATE 500 (3) GRAYLITE II	8	5	4	4	0.95	0.87	5.41	4.91	0.41	0.35	0.24
SOLARCOOL® Reflective Glasses											
SOLARCOOL (1) SOLEXIA	29	18	37	30	0.95	0.86	5.39	4.88	0.40	0.34	0.85
SOLARCOOL (2) SOLEXIA	33	18	19	10	0.95	0.86	5.39	4.88	0.48	0.41	0.80
SOLARCOOL (1) CARIBIA	25	12	36	30	0.95	0.86	5.39	4.88	0.35	0.30	0.83
SOLARCOOL (2) CARIBIA	30	14	16	8	0.95	0.86	5.39	4.88	0.45	0.39	0.77
SOLARCOOL (1) AZURIA	25	11	36	30	0.95	0.86	5.39	4.88	0.35	0.30	0.83
SOLARCOOL (2) AZURIA	30	13	16	8	0.95	0.86	5.39	4.88	0.45	0.38	0.79
SOLARCOOL (1) Bronze	20	20	36	30	0.95	0.86	5.39	4.88	0.41	0.35	0.57
SOLARCOOL (2) Bronze	24	23	11	9	0.95	0.86	5.39	4.88	0.52	0.45	0.53
SOLARCOOL (1) Gray	17	17	36	30	0.95	0.86	5.39	4.88	0.39	0.33	0.52
SOLARCOOL (2) Gray	20	19	9	8	0.95	0.86	5.39	4.88	0.50	0.42	0.48
SOLARCOOL (1) GRAYLITE II	3	3	36	30	0.95	0.87	5.41	4.92	0.29	0.24	0.14
SOLARCOOL (2) GRAYLITE II	4	4	5	4	0.95	0.87	5.41	4.91	0.39	0.33	0.12

* Performance data is based on representative samples of factory production. Actual values may vary slightly due to variations in the production process.

1. Figures may vary due to manufacturing tolerances. Performance data simulated using LBL Optics 5 and Window 5.2. with NFRC 100-2001 standard winter and summer design condition.
2. U-value (K-value) is the overall coefficient of heat transmittance or heat flow measured in BTU/hr. • ft² • °F (watts/m²•°C). Lower U-values indicate better insulating performance.
3. Shading coefficient is the ratio of the total amount of solar energy that passes through a glass relative to 1/8-in. (3.0mm) thick clear glass under the same design conditions.

4. Solar heat gain coefficient (SHGC) represents the solar heat gain through the glass relative to the incident solar radiation. It is equal to 86% of the shading coefficient.
5. Light to Solar Gain ratio (LSG) is the ratio of visible light transmittance to solar heat gain coefficient.

For additional configurations on laminated *Solarban* 60 glass, see literature #7065 on the PPG Certified Laminator Program or visit www.ppgglazing.com or call 1-888-PPG-IDEA.

See other side for Selected Laminated PPG Glass Combinations in an Insulating Unit.

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