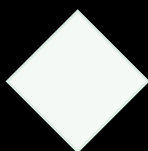




PPG Commercial Monolithic Glass Comparisons\*

Glass Thickness		Transmittance <sup>2</sup>			Reflectance <sup>2</sup>		U-Value <sup>3</sup> (Imperial)		K-Value <sup>3</sup> (Metric)		Shading Coefficient <sup>4</sup>	Solar Heat Gain Coefficient <sup>5</sup>	Light to Solar Gain (LSG) <sup>6</sup>
Inches	mm	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time	Winter Night-time	Summer Day-time			
<b>Uncoated</b>													
<b>STARPHIRE® Glass</b>													
3/16	5	86	91	90	8	8	1.03	0.93	5.85	5.28	1.04	0.89	1.02
1/4	6	85	91	89	8	8	1.03	0.93	5.85	5.28	1.03	0.89	1.03
5/16	8	84	91	88	8	8	1.01	0.91	5.74	5.17	1.03	0.89	1.03
3/8	10	83	91	87	8	8	1.00	0.91	5.68	5.17	1.02	0.88	1.04
1/2	12	80	91	86	8	8	0.98	0.89	5.57	5.06	1.01	0.87	1.05
<b>CLEAR Glass</b>													
3/16	5	69	89	79	9	7	1.03	0.93	5.85	5.28	0.96	0.83	1.08
1/4	6	66	89	77	9	7	1.03	0.93	5.85	5.28	0.94	0.81	1.10
5/16	8	61	88	72	8	7	1.01	0.91	5.74	5.17	0.90	0.77	1.14
3/8	10	58	87	69	8	7	1.00	0.91	5.68	5.17	0.88	0.76	1.15
1/2	12	53	85	64	8	6	0.98	0.89	5.57	5.06	0.84	0.72	1.18
<b>SOLEX IA™ Glass</b>													
1/8	3	43	83	60	8	6	1.04	0.94	5.91	5.34	0.81	0.70	1.19
3/16	5	35	79	52	8	6	1.03	0.93	5.85	5.28	0.75	0.65	1.22
1/4	6	31	77	47	8	6	1.02	0.93	5.79	5.28	0.71	0.61	1.26
<b>ATLANTICA™ Glass</b>													
1/8	3	28	77	48	8	6	1.04	0.94	5.91	5.34	0.72	0.62	1.24
1/4	6	16	67	34	7	5	1.02	0.93	5.79	5.28	0.61	0.52	1.28
<b>CARIBIA™ Glass</b>													
1/4	6	24	68	32	7	5	1.02	0.93	5.79	5.28	0.60	0.52	1.32
<b>AZURIA™ Glass</b>													
1/8	3	53	77	45	7	6	1.04	0.94	5.91	5.34	0.69	0.59	1.30
3/16	5	46	72	36	7	5	1.03	0.93	5.85	5.28	0.62	0.53	1.35
1/4	6	42	68	32	7	5	1.02	0.93	5.79	5.28	0.59	0.51	1.34
5/16	8	35	61	26	6	5	1.01	0.91	5.74	5.17	0.55	0.47	1.29
3/8	10	31	57	23	6	5	1.00	0.91	5.68	5.17	0.53	0.46	1.25
<b>SOLARBRONZE® Glass</b>													
1/8	3	39	67	64	7	6	1.04	0.94	5.91	5.34	0.88	0.76	0.88
3/16	5	30	58	55	6	6	1.03	0.93	5.85	5.28	0.77	0.66	0.88
1/4	6	26	53	50	6	6	1.02	0.93	5.79	5.28	0.73	0.63	0.84
5/16	8	18	43	39	6	5	1.01	0.91	5.74	5.17	0.65	0.56	0.77
3/8	10	14	37	34	5	5	1.00	0.91	5.68	5.17	0.61	0.52	0.71
1/2	12	9	27	24	5	5	0.98	0.89	5.57	5.06	0.54	0.46	0.58
<b>SOLARGRAY® Glass</b>													
1/8	3	37	60	58	6	6	1.04	0.94	5.91	5.34	0.79	0.68	0.88
3/16	5	29	50	48	6	5	1.03	0.93	5.85	5.28	0.71	0.61	0.82
1/4	6	24	44	42	6	5	1.02	0.93	5.79	5.28	0.67	0.58	0.76
5/16	8	17	33	31	5	5	1.01	0.91	5.74	5.17	0.59	0.51	0.65
3/8	10	13	28	26	5	5	1.00	0.91	5.68	5.17	0.55	0.47	0.59
1/2	12	8	18	17	5	5	0.98	0.89	5.57	5.06	0.49	0.42	0.43
<b>OPTIGRAY® 23 Glass</b>													
1/8	3	18	41	36	6	5	1.04	0.94	5.91	5.34	0.67	0.58	0.71
1/4	6	8	23	19	5	5	1.02	0.93	5.79	5.28	0.50	0.43	0.53
<b>GRAYLITE® Glass</b>													
1/8	3	17	30	43	5	5	1.04	0.94	5.91	5.34	0.67	0.58	0.52
1/4	6	7	14	26	5	5	1.02	0.93	5.79	5.28	0.55	0.47	0.30



Call the PPG Solutions Hotline: 800-377-5267 for sample requests, complete PPG glass information, to locate a PPG Certified Fabricator™, or to speak with an architectural representative about your project.



PPG Commercial Monolithic Glass Comparisons\*

Glass Thickness		Transmittance <sup>2</sup>			Reflectance <sup>2</sup>		U-Value <sup>3</sup> (Imperial)		K-Value <sup>3</sup> (Metric)		Shading Coefficient <sup>4</sup>	Solar Heat Gain Coefficient <sup>5</sup>	Light to Solar Gain (LSG) <sup>6</sup>
Inches	mm	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time	Winter Night-time	Summer Day-time			
Coated													
<b>SOLARCOOL<sup>®</sup> (1) SOLEXIA<sup>™</sup> Glass</b>													
1/4	6	9	30	23	37	30	1.03	0.93	5.85	5.28	0.44	0.38	0.79
<b>SOLARCOOL<sup>®</sup> (2) SOLEXIA<sup>™</sup> Glass</b>													
1/4	6	9	30	23	23	37	1.03	0.93	5.85	5.28	0.50	0.43	0.70
<b>SOLARCOOL<sup>®</sup> (1) CARIBIA<sup>™</sup> Glass</b>													
1/4	6	7	26	14	36	30	1.03	0.93	5.85	5.28	0.36	0.31	0.84
<b>SOLARCOOL<sup>®</sup> (2) CARIBIA<sup>™</sup> Glass</b>													
1/4	6	7	26	14	19	9	1.03	0.93	5.85	5.28	0.44	0.38	0.69
<b>SOLARCOOL<sup>®</sup> (1) AZURIA<sup>™</sup> Glass</b>													
3/16	5	13	27	16	36	30	1.03	0.93	5.85	5.28	0.37	0.32	0.85
1/4	6	12	26	14	36	30	1.03	0.93	5.85	5.28	0.36	0.31	0.84
<b>SOLARCOOL<sup>®</sup> (2) AZURIA<sup>™</sup> Glass</b>													
3/16	5	13	27	16	36	30	1.03	0.94	5.85	5.34	0.45	0.39	0.70
1/4	6	12	26	14	19	10	1.03	0.93	5.85	5.28	0.44	0.38	0.69
<b>SOLARCOOL<sup>®</sup> (1) Bronze Glass</b>													
5/32	4	10	24	33	36	30	1.04	0.94	5.91	5.34	0.51	0.44	0.55
1/4	6	7	21	27	36	30	1.03	0.93	5.85	5.28	0.46	0.40	0.53
<b>SOLARCOOL<sup>®</sup> (2) Bronze Glass</b>													
5/32	4	10	24	33	17	14	1.04	0.94	5.91	5.34	0.57	0.49	0.49
1/4	6	7	21	27	13	11	1.03	0.93	5.85	5.28	0.53	0.46	0.46
<b>SOLARCOOL<sup>®</sup> (1) Gray Glass</b>													
1/4	6	7	17	23	36	30	1.03	0.93	5.85	5.28	0.43	0.37	0.46
<b>SOLARCOOL<sup>®</sup> (2) Gray Glass</b>													
1/4	6	7	17	23	11	9	1.03	0.93	5.85	5.28	0.51	0.44	0.39
<b>SOLARCOOL<sup>®</sup> (1) GRAYLITE Glass</b>													
1/4	6	2	5	16	36	30	1.03	0.93	5.85	5.28	0.37	0.32	0.16
<b>SOLARCOOL<sup>®</sup> (2) GRAYLITE Glass</b>													
1/4	6	2	5	16	5	6	1.03	0.93	5.85	5.28	0.46	0.40	0.13

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

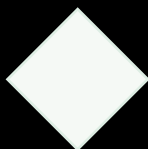
- Figures may vary due to manufacturing tolerances. All tabulated data is based on NFRC methodology using the LBL Window 5.2 software. Variations from previously published data are due to minor changes in the LBL Window 5.2 software versus Version 4.1.
- Transmittance and reflectance values based on spectrophotometric measurements and energy distribution of solar radiation.
- U-value (K-value) is the overall coefficient of heat transmittance or heat flow measured in BTU/hr. • ft<sup>2</sup> • °F (watts/m<sup>2</sup>•°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. Note: Performance values were calculated using the LBL Window 5.2 program using NFRC 100-2001 standard winter and summer design condition.
- Solar heat gain coefficient 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.



One-inch Insulating Glass Data and Comparisons can be found at [www.ppgglazing.com](http://www.ppgglazing.com) or by calling the PPG Solutions Hotline at 800-377-5267.

For data on: Solargreen<sup>®</sup> Glass — please see Atlantica<sup>™</sup> Glass  
Solex<sup>®</sup> Glass — please see Solexia<sup>™</sup> Glass  
Azurlite<sup>®</sup> Glass — please see Azuria<sup>™</sup> Glass

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