

One-Inch Insulating Glass Unit Comparisons with PPG Glass

Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites; interior lite clear unless otherwise noted

Outdoor Lite: Coating if Any (Surface) Glass	Glass Type +	Indoor Lite: Coating if Any (Surface) Glass	Transmittance ²			Exterior Reflectance ²		(BTU/hr·ft ² ·F) NFRC U-Value ³		U-Value ⁴ EN 673 (W/m ² ·K)	Shading Coefficient ⁵	Solar Heat Gain Coefficient ⁶	Light to Solar Gain (LSG) ⁷
			Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night- time	Summer Day- time				
Uncoated													
	Clear Glass + Clear		50	79	61	15	12	0.47	0.50	2.81	0.81	0.70	1.13
	STARPHIRE® + STARPHIRE		77	84	80	15	14	0.47	0.50	2.81	0.94	0.82	1.02
	SOLEXIA™ + Clear		25	69	39	13	8	0.47	0.50	2.81	0.57	0.49	1.41
	ATLANTICA™ + Clear		13	60	29	11	7	0.47	0.50	2.81	0.47	0.40	1.50
	CARIBIA® + Clear		20	60	28	11	7	0.47	0.50	2.81	0.45	0.39	1.55
	AZURIA™ + Clear		34	61	28	11	7	0.47	0.50	2.81	0.45	0.39	1.56
	PACIFICA™ + Clear		12	38	23	7	6	0.47	0.50	2.81	0.41	0.35	1.07
	SOLARBLUE™ + Clear		25	50	37	9	7	0.47	0.50	2.81	0.56	0.49	1.03
	SOLARBRONZE® + Clear		21	47	39	8	7	0.47	0.50	2.81	0.59	0.51	0.93
	SOLARGRAY® + Clear		20	40	33	7	7	0.47	0.50	2.81	0.53	0.45	0.88
	OPTIGRAY® 23 + Clear		6	21	15	6	5	0.47	0.50	2.81	0.34	0.29	0.71
	GRAYLITE® II + Clear		2	9	8	4	4	0.47	0.50	2.81	0.25	0.21	0.37
Coated													
SUNGATE® 500 Low-E Glass													
	SUNGATE 500 (2) + Clear		42	74	52	17	14	0.35	0.35	1.96	0.71	0.62	1.19
	SOLEXIA + SUNGATE 500 (3) Clear		21	64	33	14	9	0.35	0.35	1.96	0.51	0.44	1.45
	ATLANTICA + SUNGATE 500 (3) Clear		11	56	25	12	7	0.35	0.35	1.96	0.41	0.35	1.60
	CARIBIA + SUNGATE 500 (3) Clear		17	56	24	12	7	0.35	0.35	1.96	0.40	0.34	1.65
	AZURIA + SUNGATE 500 (3) Clear		29	57	24	12	7	0.35	0.35	1.96	0.40	0.34	1.66
	PACIFICA + SUNGATE 500 (3) Clear		10	35	19	7	6	0.35	0.35	1.96	0.35	0.30	1.16
	SOLARBLUE + SUNGATE 500 (3) Clear		21	46	32	10	9	0.35	0.35	1.96	0.51	0.44	1.06
	SOLARBRONZE + SUNGATE 500 (3) Clear		18	44	33	9	9	0.35	0.35	1.96	0.53	0.46	0.96
	SOLARGRAY + SUNGATE 500 (3) Clear		17	37	28	8	8	0.35	0.35	1.96	0.47	0.40	0.92
	OPTIGRAY 23 + SUNGATE 500 (3) Clear		6	19	13	6	6	0.35	0.35	1.96	0.28	0.24	0.80
	GRAYLITE II + SUNGATE 500 (3) Clear		1	7	5	4	4	0.35	0.35	1.96	0.19	0.16	0.45
SUNGATE® 400 Low-E													
	SUNGATE 400 (2) Clear + Clear		28	76	51	14	16	0.32	0.31	1.75	0.69	0.60	1.28
	SUNGATE 400 (2) STARPHIRE + STARPHIRE		39	80	65	14	20	0.32	0.31	1.75	0.78	0.68	1.18
	Clear + SUNGATE 400 (3) Clear		28	76	51	14	17	0.32	0.31	1.75	0.73	0.63	1.21
	STARPHIRE + SUNGATE 400 (3) STARPHIRE		39	80	65	14	22	0.32	0.31	1.75	0.83	0.72	1.11
	SOLEXIA + SUNGATE 400 (3) Clear		15	66	33	12	9	0.32	0.31	1.75	0.50	0.44	1.52
	ATLANTICA + SUNGATE 400 (3) Clear		8	58	25	10	7	0.32	0.31	1.75	0.40	0.35	1.67
	CARIBIA + SUNGATE 400 (3) Clear		12	58	25	10	7	0.32	0.31	1.75	0.39	0.34	1.72
	AZURIA + SUNGATE 400 (3) Clear		20	59	25	10	7	0.32	0.31	1.75	0.39	0.34	1.73
	PACIFICA + SUNGATE 400 (3) Clear		8	37	20	7	6	0.32	0.31	1.75	0.34	0.29	1.25
	SOLARBLUE + SUNGATE 400 (3) Clear		15	48	31	8	9	0.32	0.31	1.75	0.49	0.42	1.14
	SOLARBRONZE + SUNGATE 400 (3) Clear		12	46	32	8	10	0.32	0.31	1.75	0.50	0.44	1.05
	SOLARGRAY + SUNGATE 400 (3) Clear		12	38	27	7	9	0.32	0.31	1.75	0.44	0.38	0.99
	OPTIGRAY + SUNGATE 400 (3) Clear		4	20	13	5	6	0.32	0.31	1.75	0.26	0.23	0.88
	GRAYLITE II + SUNGATE 400 (3) Clear		1	8	5	4	5	0.32	0.31	1.75	0.17	0.15	0.52
	OPTIBLUE + SUNGATE 400 (3) Clear		21	55	41	9	13	0.32	0.31	1.75	0.62	0.53	1.03
SOLARBAN® 60 Solar Control Low-E Glass													
	SOLARBAN 60 (2) STARPHIRE + STARPHIRE		25	74	38	11	43	0.29	0.27	1.55	0.46	0.40	1.85
	SOLARBAN 60 (2) Clear + Clear		19	70	33	11	29	0.29	0.27	1.55	0.44	0.38	1.85
	SOLARBAN 60 (2) ATLANTICA + Clear		5	54	20	8	7	0.29	0.27	1.55	0.31	0.27	1.98
	SOLARBAN 60 (2) AZURIA + Clear		13	54	21	8	7	0.29	0.27	1.55	0.32	0.28	1.93
	SOLARBAN 60 (2) CARIBIA + Clear		8	54	20	8	4	0.29	0.27	1.55	0.31	0.27	1.99
	SOLARBAN 60 (2) SOLEXIA + Clear		10	61	25	10	11	0.29	0.27	1.55	0.36	0.32	1.92
	SOLARBAN 60 (2) PACIFICA + Clear		5	34	15	6	7	0.29	0.27	1.55	0.26	0.22	1.52
	SOLARBAN 60 (2) SOLARBLUE + Clear		10	45	21	7	13	0.29	0.27	1.55	0.32	0.28	1.60
	SOLARBAN 60 (2) SOLARBRONZE + Clear		8	42	20	7	16	0.29	0.27	1.55	0.31	0.27	1.56
	SOLARBAN 60 (2) SOLARGRAY + Clear		8	35	17	6	12	0.29	0.27	1.55	0.28	0.24	1.47
	SOLEXIA + SOLARBAN 60 (3) Clear		10	61	25	11	11	0.29	0.27	1.55	0.42	0.36	1.70
	ATLANTICA + SOLARBAN 60 (3) Clear		5	53	20	9	7	0.29	0.27	1.55	0.35	0.30	1.78
	CARIBIA + SOLARBAN 60 (3) Clear		8	54	20	9	7	0.29	0.27	1.55	0.35	0.31	1.74
	AZURIA + SOLARBAN 60 (3) Clear		13	54	21	9	7	0.29	0.27	1.55	0.36	0.31	1.75
	PACIFICA + SOLARBAN 60 (3) Clear		5	34	15	6	7	0.29	0.27	1.55	0.29	0.25	1.36
	SOLARBLUE + SOLARBAN 60 (3) Clear		10	45	21	8	13	0.29	0.27	1.55	0.37	0.32	1.39
	SOLARBRONZE + SOLARBAN 60 (3) Clear		8	42	20	7	17	0.29	0.27	1.55	0.36	0.31	1.36
	SOLARGRAY + SOLARBAN 60 (3) Clear		8	35	17	7	13	0.29	0.27	1.55	0.32	0.28	1.26
	OPTIGRAY 23 + SOLARBAN 60 (3) Clear		3	18	9	5	6	0.29	0.27	1.55	0.21	0.18	1.02
	GRAYLITE II + SOLARBAN 60 (3) Clear		1	7	4	4	5	0.29	0.27	1.55	0.14	0.12	0.58
SOLARBAN® 80 Solar Control Low-E Glass													
	SOLARBAN 80 (2) Clear + Clear		13	48	20	33	38	0.29	0.27	1.52	0.28	0.24	1.98
	SOLARBAN 80 (2) Clear + OPTIBLUE™		10	34	15	32	38	0.29	0.27	1.52	0.27	0.23	1.48
	SOLARBAN 80 (2) OPTIBLUE + Clear		9	34	15	19	28	0.29	0.27	1.52	0.23	0.20	1.70
	SOLARBAN 80 (2) OPTIBLUE + OPTIBLUE		7	25	11	19	28	0.29	0.27	1.52	0.23	0.20	1.23