



Pilkington **Solar-E™** and **Solar-E™** Plus

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Solar Control low-e glass

Pilkington **Solar-E™** is a low-e glass that offers the perfect solution for meeting cooling load requirements while also maintaining natural daylight transmittance in warm climate regions.

The Pilkington **Solar-E™** coating, preferably situated on surface #2, works through absorption of solar radiation, thereby reducing solar heat gain.

With a slightly deeper tint and improved solar performance, the Pilkington **Solar-E™ Plus** tints are perfect for any new commercial building project or renovation.

Pilkington **Solar-E™** and Pilkington **Solar-E™ Plus** coatings offer low solar heat gain, low reflectivity, and glare control, which contribute to sustainable commercial construction.

Pilkington **Solar-E™ Plus** can help earn LEED® or any other green building certification. Sustainability credits can be achieved through improvements in proposed building performance ratings for new and renovated buildings.



Telesure Headquarters
South Africa

Applications

- Commercial buildings requiring solar control
- Low/mid/high rise buildings
- Medical/Hospital
- Educational facilities/Schools
- Office buildings
- Retail buildings

Features and Benefits

- The low-e coating reduces the emissivity of glass and lowers the U-factor
- Low SHGC values result in utility cost savings
- Provides good visible light transmittance, helping to reduce the need for interior lighting
- Low internal/external reflection, reducing sun glare and the need for blinds and shades
- Low UV (ultraviolet) transmittance, reducing UV rays results in less fading
- For further improved thermal control, add Pilkington **Energy Advantage™** low-e to an insulated unit (coating on the #4 surface)
- Can be laminated, toughened, bent and enameled

Available Tints

Pilkington **Solar-E™**

- Clear
- **EverGreen™**

Pilkington **Solar-E™ Plus**

- Clear
- Blue-Green
- **Arctic Blue™**
- Grey

Available Thickness

Pilkington **Solar-E™**

- 3 mm (1/8")*
- 4 mm (5/32")*
- 5 mm (3/16")*
- 6 mm (1/4")
- 8 mm (5/16")

* Only available on Clear

Pilkington **Solar-E™ Plus**

- 6 mm (1/4")
- 8 mm (5/16")

Coated Monolithic Performance Data

	Nominal Glass Thickness		Visible Light (%)			Solar Energy (%)			U-Factor (Btu/hr·ft ² ·°F)		Solar Heat Gain Coefficient	Shading Coefficient
	in.	mm	Transmittance	Reflectance		Transmittance	Reflectance	UV Transmittance	Summer	Winter		
				Outside	Inside							

Pilkington **Solar-E™** solar control low-e (coating on #2 surface)

Clear	1/8	3	60	8	9	46	8	48	0.50	0.66	0.54	0.63
	5/32	4	60	8	9	45	8	46	0.50	0.65	0.54	0.62
	3/16	5	60	7	9	44	7	44	0.50	0.65	0.53	0.61
	1/4	6	60	8	9	44	7	44	0.50	0.65	0.53	0.61
	5/16	8	59	8	9	42	7	41	0.49	0.64	0.52	0.59
	3/8	10	60	8	9	40	7	38	0.49	0.64	0.5	0.58
EverGreen™	1/4	6	45	6	9	20	5	8	0.50	0.65	0.35	0.40
	5/16	8	40	7	9	16	5	5	0.50	0.64	0.32	0.37

Pilkington **Solar-E™** Plus solar control low-e (coating on #2 surface)

Clear	1/4	6	67	25	28	58	19	30	0.53	0.67	0.62	0.72
Blue-Green	1/4	6	41	6	9	24	5	19	0.50	0.65	0.38	0.44
Arctic Blue™	1/4	6	30	5	8	17	5	11	0.50	0.65	0.32	0.37
Grey	1/4	6	24	5	9	19	5	12	0.50	0.65	0.34	0.39

U-Factor (Btu/hr·ft²·°F) is based on NFRC/ASTM standards. All performance values are center-of-glass values calculated using the LBNL Window 7.7 program.

Insulating Glass Unit Performance for Coated Float Glass

	Visible Light (%)			Solar Energy (%)			U-Factor (Btu/hr·ft ² ·°F)				Solar Heat Gain Coefficient	Shading Coefficient
	Transmittance	Reflectance		Transmittance	Reflectance	UV Transmittance	Summer		Winter			
		Outside	Inside				Air	Argon	Air	Argon		

Pilkington Glass (coating on #2 surface) outer lite and Pilkington **Optifloat™** Clear inner lite

Solar-E™	53	11	15	35	9	33	0.33	0.28	0.33	0.29	0.45	0.51
Solar-E™ on EverGreen™	40	8	15	17	6	7	0.33	0.28	0.33	0.29	0.26	0.30
Solar-E™ Plus	44	9	16	30	8	7	0.33	0.9	0.34	0.9	0.40	0.46
Solar-E™ Plus on Blue-Green	37	8	15	20	6	15	0.33	0.28	0.33	0.29	0.30	0.34
Solar-E™ Plus on Arctic Blue™	27	6	14	14	5	9	0.33	0.28	0.33	0.29	0.24	0.28
Solar-E™ Plus on Grey	21	6	15	16	6	10	0.33	0.28	0.33	0.29	0.26	0.30

Pilkington Glass (coating on #2 surface) outer lite and Pilkington **Energy Advantage™** low-e (coating on #4 surface) inner lite

Solar-E™	49	11	17	32	9	26	0.24	0.22	0.26	0.23	0.41	0.47
Solar-E™ on EverGreen™	37	8	17	16	6	5	0.24	0.22	0.26	0.23	0.24	0.27
Solar-E™ Plus	41	10	17	7	8	1	0.5	0.	0.6	0.3	0.36	0.41
Solar-E™ Plus on Blue-Green	34	8	17	18	6	12	0.24	0.22	0.26	0.23	0.27	0.31
Solar-E™ Plus on Arctic Blue™	25	6	16	13	5	7	0.24	0.22	0.26	0.23	0.21	0.25
Solar-E™ Plus on Grey	20	6	17	14	6	8	0.24	0.22	0.26	0.23	0.23	0.27

An insulating unit consists of two lites of 1/4" (6mm) glass and a 1/2" (12.7mm) spacer width.

U-Factor (Btu/hr·ft²·°F) is based on NFRC/ASTM standards. All performance values are center-of-glass values calculated using the LBNL Window 7.7 program.

This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, "Solar-E" "Energy Advantage" "Optifloat" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



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