



Solar Control Low-e Glass  
Pilkington **Eclipse Advantage™**





Adma - OPCO Head Quarters  
Abu Dhabi  
Pilkington **Eclipse Advantage™** Grey

## Pilkington **Eclipse Advantage™**

Pilkington **Eclipse Advantage™** is manufactured by the NSG Group pyrolytic process. In this on-line chemical vapor deposition process, a gas reacts with the semi-molten surface of the float glass to form a subtle reflective coating on clear and tinted glass. The result is a product that combines solar and thermal performance, subtle reflectivity and glare control. It can be applied to a variety of colors - Clear, Grey, Bronze, Blue-Green, EverGreen and Artic Blue.

Pilkington **Eclipse Advantage™** provides a versatile and attractive solution to all applications where a brightly colored glass is needed, with enhanced solar control performance. It is also well suited for the small refurbishment, to the large prestigious commercial development, where a high impact solution is needed.

### Features and Benefits

- The low-e coating reduces the emissivity of glass and lowers the U-factor.
- Low SHGC values can result in significant savings in utility costs.
- Available in natural, colors with subtle reflectivity.
- Provides good visible light transmittance, helping to reduce the need for interior lighting.
- Low internal and external reflection, reducing uncomfortable glare from the sun and the need for blinds and shades.
- Low UV (ultraviolet) transmittance. Reducing UV rays means less fading.
- Ideal for new commercial construction and replacement applications.
- For further improved thermal control, add Pilkington **Energy Advantage™** low-e to an insulating unit (coating on the #4 surface).

### Applications

- Commercial buildings requiring solar and thermal control
- Low, mid and hi-rise buildings
- Medical/Hospital
- Educational/Schools
- Office
- Retail
- Residential



St. Phillips Health Professions  
San Antonio, TX  
Pilkington **Eclipse Advantage™** Evergreen

**Coated Monolithic Performance Data<sup>1,10</sup>**

	Nominal Glass Thickness		Visible Light <sup>2</sup>			Solar Energy <sup>2</sup>			U-Factor <sup>5</sup>			Solar Heat Gain Coefficient <sup>7</sup>	Shading Coefficient <sup>8</sup>
	in.	mm	Transmittance <sup>3</sup> %	Reflectance <sup>4</sup> %		Transmittance <sup>3</sup> %	Reflectance <sup>4</sup> %	UV Transmittance <sup>2</sup> %	U.S. Summer	U.S. Winter	European <sup>6</sup>		
				Outside	Inside								
Clear	1/4	6	67	25	28	58	19	30	0.53	0.67	3.7	0.62	0.72
	5/16	8	66	25	28	55	17	29	0.53	0.67	3.7	0.60	0.69
Blue-Green	1/4	6	56	19	27	35	11	16	0.53	0.67	3.7	0.46	0.53
	5/16	8	53	17	27	30	10	13	0.53	0.67	3.7	0.42	0.48
EverGreen	1/4	6	48	15	27	23	8	7	0.53	0.67	3.7	0.37	0.43
	5/16	8	43	13	27	18	7	4	0.53	0.67	3.7	0.34	0.39
Arctic Blue	1/4	6	39	12	27	23	8	10	0.53	0.67	3.7	0.37	0.42
	5/16	8	32	10	27	17	7	7	0.53	0.67	3.7	0.33	0.38
Bronze	1/4	6	38	11	27	35	10	11	0.53	0.67	3.7	0.46	0.53
	5/16	8	31	9	26	28	8	8	0.53	0.67	3.7	0.41	0.47
Grey	1/4	6	32	10	27	29	8	10	0.53	0.67	3.7	0.42	0.48
	5/16	8	25	8	27	22	7	7	0.53	0.67	3.7	0.37	0.42

\*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, \*\*European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.  
 All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See page 51 for explanation of references - <sup>1,10</sup>.

**Insulating Glass Unit Performance Data<sup>1,10</sup>**

	Nominal Glass Thickness		Visible Light <sup>2</sup>			Solar Energy <sup>2</sup>			U-Factor <sup>5</sup>						Solar Heat Gain Coefficient <sup>7</sup>	Shading Coefficient <sup>8</sup>
	in.	mm	Transmittance <sup>3</sup> %	Reflectance <sup>4</sup> %		Transmittance <sup>3</sup> %	Reflectance <sup>4</sup> %	UV Transmittance <sup>2</sup> %	U.S. Summer*		U.S. Winter*		European <sup>6**</sup>			
				Outside	Inside				Air	Argon	Air	Argon	Air	Argon		
Pilkington <b>Eclipse Advantage</b> <sup>™</sup> (coating on #2 surface) outer lite and Pilkington <b>Optifloat</b> <sup>™</sup> Clear inner lite																
Clear	1/4	6	60	29	31	46	21	24	0.35	0.30	0.35	0.30	1.9	1.6	0.55	0.63
	5/16	8	58	29	30	42	20	21	0.34	0.30	0.34	0.30	1.9	1.6	0.53	0.60
Blue-Green	1/4	6	51	21	29	29	12	13	0.35	0.30	0.35	0.30	1.9	1.6	0.38	0.44
	5/16	8	47	19	29	24	10	10	0.34	0.30	0.34	0.30	1.9	1.6	0.34	0.39
EverGreen	1/4	6	43	17	30	20	9	6	0.35	0.30	0.35	0.30	1.9	1.6	0.29	0.33
	5/16	8	38	15	29	15	8	4	0.34	0.30	0.34	0.30	1.9	1.6	0.25	0.29
Arctic Blue	1/4	6	35	13	30	19	9	9	0.35	0.30	0.35	0.30	1.9	1.6	0.29	0.33
	5/16	8	29	11	29	14	7	6	0.34	0.30	0.34	0.30	1.9	1.6	0.25	0.28
Bronze	1/4	6	34	13	29	28	11	9	0.35	0.30	0.35	0.30	1.9	1.6	0.38	0.44
	5/16	8	28	10	28	21	9	6	0.34	0.30	0.34	0.30	1.9	1.6	0.33	0.38
Grey	1/4	6	29	10	29	23	9	8	0.35	0.30	0.35	0.30	1.9	1.6	0.34	0.39
	5/16	8	22	8	29	17	7	6	0.34	0.30	0.34	0.30	1.9	1.6	0.28	0.32
Pilkington <b>Eclipse Advantage</b> <sup>™</sup> (coating on #2 surface) outer lite and Pilkington <b>Energy Advantage</b> <sup>™</sup> Low-e (coating on #4 surface) inner lite <sup>9</sup>																
Clear	1/4	6	56	30	30	41	22	19	0.25	0.23	0.27	0.24	1.6	1.4	0.51	0.58
	5/16	8	55	29	30	37	20	17	0.25	0.23	0.27	0.24	1.6	1.4	0.48	0.55
Blue-Green	1/4	6	48	22	29	26	12	10	0.25	0.23	0.27	0.24	1.6	1.4	0.35	0.40
	5/16	8	44	20	29	21	11	8	0.25	0.23	0.27	0.24	1.6	1.4	0.30	0.35
EverGreen	1/4	6	40	18	30	18	9	5	0.25	0.23	0.27	0.24	1.6	1.4	0.26	0.30
	5/16	8	36	15	29	14	8	3	0.25	0.23	0.27	0.24	1.6	1.4	0.23	0.26
Arctic Blue	1/4	6	33	14	29	17	9	7	0.25	0.23	0.27	0.24	1.6	1.4	0.26	0.30
	5/16	8	27	11	29	13	7	5	0.25	0.23	0.27	0.24	1.6	1.4	0.22	0.25
Bronze	1/4	6	32	13	29	24	11	7	0.25	0.23	0.27	0.24	1.6	1.4	0.34	0.39
	5/16	8	26	10	28	19	9	5	0.25	0.23	0.27	0.24	1.6	1.4	0.29	0.33
Grey	1/4	6	27	11	29	20	9	7	0.25	0.23	0.27	0.24	1.6	1.4	0.30	0.35
	5/16	8	21	8	29	15	7	5	0.25	0.23	0.27	0.24	1.6	1.4	0.25	0.29

An insulating unit consists of two lites of equal glass thickness, and a 1/2 in. (12.7 mm) airspace.

\*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards, \*\*European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard.

All performance values are center-of-glass values calculated using the LBNL Window 6.3 program. See Pilkington Architectural Product Guide for explanation of references - <sup>1,10</sup>.

This publication provides only a general description of the product. 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 this product 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 and "Eclipse Advantage," "Optifloat" and "Energy Advantage" are trade marks of Nippon sheet Glass Co. Ltd, or a subsidiary thereof.



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