PILKINGTON

Pilkington **Eclipse Advantage™**

NSG GROUP

Pilkington **Eclipse Advantage™**

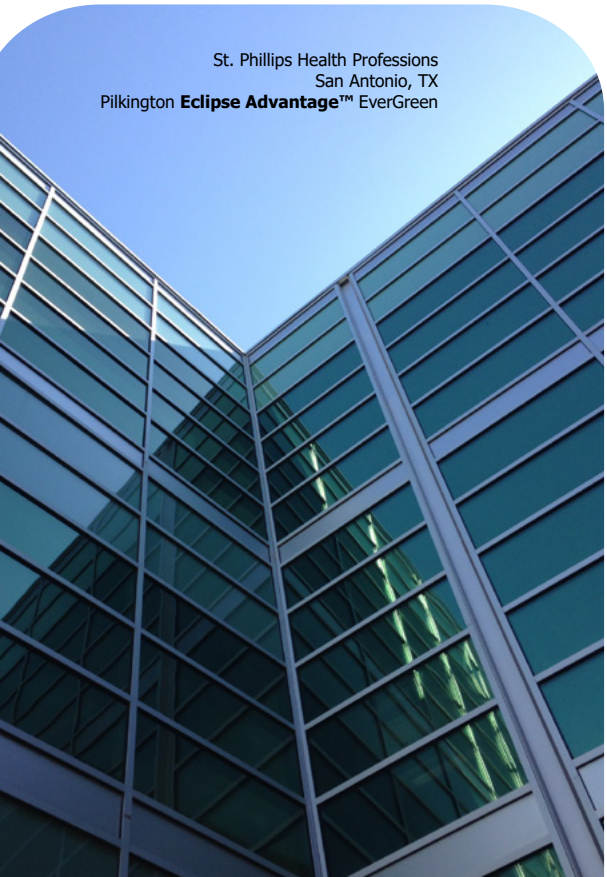
Pilkington **Eclipse Advantage™** is the world's first reflective pyrolytic low-e glass. In this on-line chemical vapor deposition process, a gas reacts with the semi-molten surface of the float glass to form a subtle reflective coating on clear and tinted glass. The result is a product that combines solar and thermal performance, subtle reflectivity and glare control.

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.

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

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

Available Tints

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

Available Thickness

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

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)

Coated Monolithic Performance Data

	Nominal Glass Thickness		Visible Light (%)			Solar Energy (%)			U-Factor (Btu/hr•ft²•°F)		Solar Heat Gain Coefficient	Shading Coefficient
	in.	mm	Transmittance	Reflectance		Transmittance	Reflectance	UV Transmittance	Summer	Winter		
				Outside	Inside							
Pilkington **Eclipse Advantage™** 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
EverGreen™	1/4	6	48	15	27	23	8	7	0.53	0.67	0.37	0.43
Blue-Green	1/4	6	56	19	27	35	11	16	0.53	0.67	0.46	0.53
Arctic Blue™	1/4	6	39	12	27	23	8	10	0.53	0.67	0.37	0.43
Grey	1/4	6	32	10	27	29	8	10	0.53	0.67	0.42	0.48
Bronze	1/4	6	38	11	27	35	10	11	0.53	0.67	0.46	0.53

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•ft²•°F)				Solar Heat Gain Coefficient	Shading Coefficient
	Transmittance	Reflectance		Transmittance	Reflectance	UV Transmittance	Summer		Winter			
		Outside	Inside				Air	Argon	Air	Argon		
Pilkington **Eclipse Advantage**™ (coating on #2 surface) outer lite and Pilkington **Optifloat™** Clear inner lite												
Eclipse Advantage™	60	29	31	46	21	24	0.35	0.30	0.35	0.30	0.55	0.63
Eclipse Advantage™ on **EverGreen™**	43	17	30	20	9	6	0.35	0.30	0.35	0.30	0.29	0.34
Eclipse Advantage™ on Blue-Green	51	21	29	29	12	13	0.35	0.30	0.35	0.30	0.38	0.44
Eclipse Advantage™ on **Arctic Blue™**	35	13	30	19	9	9	0.35	0.30	0.35	0.30	0.29	0.33
Eclipse Advantage™ on Grey	29	10	29	23	9	8	0.35	0.30	0.35	0.30	0.33	0.38
Eclipse Advantage™ on Bronze	34	13	29	28	11	9	0.35	0.30	0.35	0.30	0.38	0.44
Pilkington **Eclipse Advantage**™ (coating on #2 surface) outer lite and Pilkington **Energy Advantage™** low-e (coating on #4 surface) inner lite												
Eclipse Advantage™	56	30	30	41	22	19	0.25	0.23	0.27	0.24	0.51	0.58
Eclipse Advantage™ on **EverGreen™**	40	18	30	18	9	5	0.25	0.23	0.27	0.24	0.26	0.30
Eclipse Advantage™ on Blue-Green	48	22	29	26	12	10	0.25	0.23	0.27	0.24	0.35	0.40
Eclipse Advantage™ on **Arctic Blue™**	33	14	29	17	9	7	0.25	0.23	0.27	0.24	0.26	0.30
Eclipse Advantage™ on Grey	27	11	29	20	9	7	0.25	0.23	0.27	0.24	0.30	0.34
Eclipse Advantage™ on Bronze	32	13	29	24	11	7	0.25	0.23	0.27	0.24	0.34	0.39

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

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 and „Eclipse Advantage," „Optifloat" and „Energy Advantage" are trade marks of Nippon sheet Glass Co. Ltd, or a subsidiary thereof.

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