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February 2006

Pilkington **Eclipse Advantage**™

PILKINGTON

Pilkington **Eclipse Advantage**™ Pyrolytic Solar Control Glass with low E

Now you can dream in colour again

Major advances in glass technology, such as low E and solar control glass, have revolutionised the applications met by glass today. However, there have still been limitations on available products offering a combination of these properties together with a variety of colour ranges to meet individual requirements.

Today, Pilkington is able to provide the perfect solution. Combining low emissivity with solar control in a variety of attractive colours, Pilkington **Eclipse Advantage**™ is a world leading pyrolytic environmental control glass. A unique combination of high light transmittance, with reduced solar gain and glare, Pilkington **Eclipse Advantage**™ provides subtle reflectivity with consistent colour.

As Pilkington **Eclipse Advantage**™ is a pyrolytic rather than a soft coating, there are no significant changes to its properties when toughened or bent.

Pilkington **Eclipse Advantage**™ Arctic Blue

NEW Pilkington **Eclipse Advantage**™ Clear Reflective low E Glass

NEW Pilkington **Eclipse Advantage**™ Grey Reflective low E Glass

NEW Pilkington **Eclipse Advantage**™ Bronze Reflective low E Glass

NEW Pilkington **Eclipse Advantage**™ Arctic Blue Reflective low E Glass

NEW Pilkington **Eclipse Advantage**™ Blue-Green Reflective low E Glass

NEW Pilkington **Eclipse Advantage**™ EverGreen Reflective low E Glass

The Pyrolytic Advantage

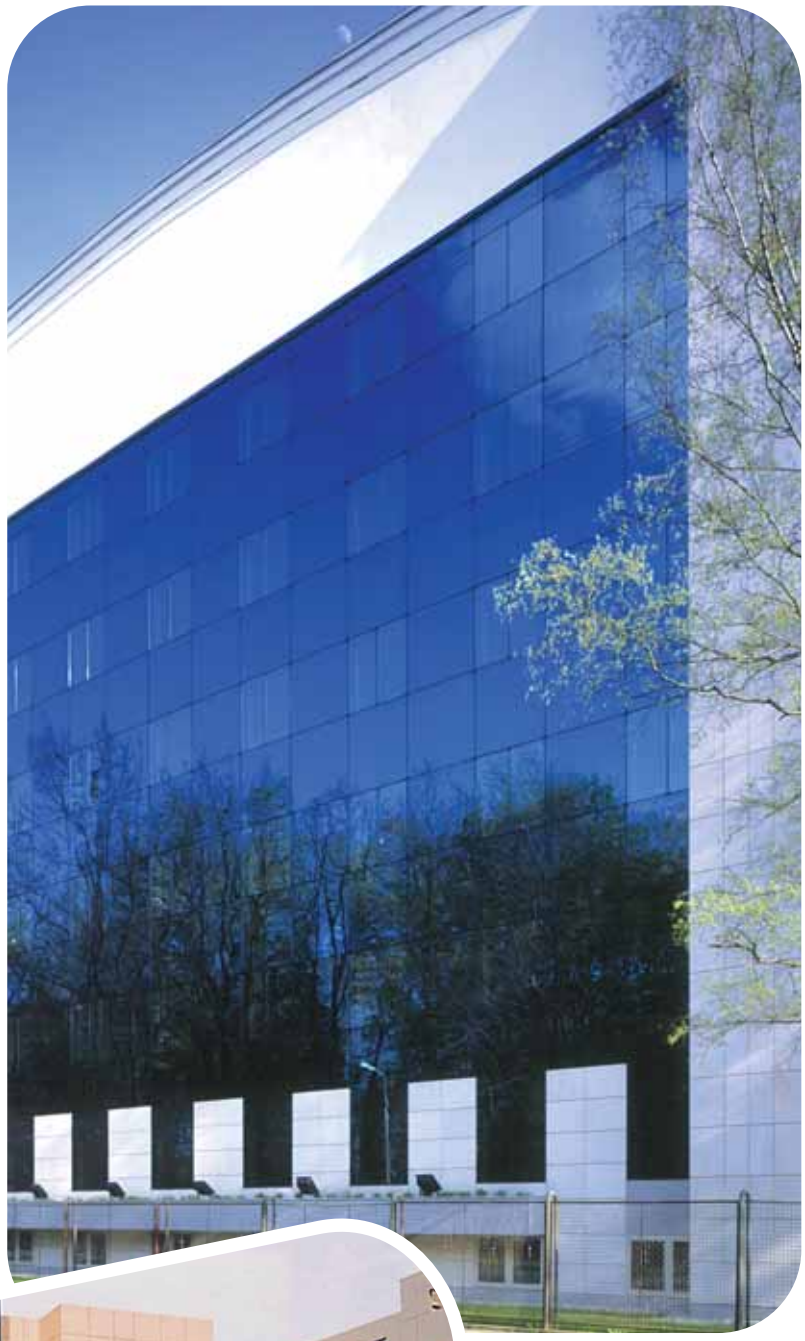
Pilkington **Eclipse Advantage**™ is manufactured using our patented on-line chemical vapour deposition technology, in which a gas reacts with the semi-molten surface of a ribbon of float glass to form an advanced hard coating on clear and tinted substrates.

The resulting product combines solar and thermal control with a high visible light transmittance, subtle reflectivity, glare control and a crisp, consistent colour.

Product Features

- COMBINES HIGHER LIGHT TRANSMITTANCE, lower visible reflectance, solar control and low E properties in a single hard coating.
- DESIGN FLEXIBILITY, combining a natural colour with subtle reflectivity, high visible light transmittance and interior glare control.
- DURABLE HARD COATING can be handled, cut, toughened, bent and fabricated into insulating glass units using standard techniques.

- TOUGHENABLE, enabling significant reduction of lead times and production losses when heat-strengthening or toughening are required.
- ENERGY EFFICIENT, combining low emissivity with solar control for considerable energy cost reductions compared with ordinary glass.
- REDUCED UV TRANSMITTANCE limits colour fading and degradation of plastic materials, with more of the sun's damaging radiation effectively blocked.
- SEALANT COMPATIBLE with common insulating glass units (IGUs) and structural silicone sealants, with no edge deletion required.
- COLOUR AND SURFACE UNIFORMITY within each glass pane make Pilkington **Eclipse Advantage**™ ideal for new construction and replacement applications.
- ALL COLOURS: Clear, Arctic Blue, Blue-Green, Bronze, EverGreen and Grey are available in 4mm, 6mm and 8mm.
- READILY AVAILABLE either from stock or with much improved lead times.



Pilkington **Eclipse Advantage**™ Arctic Blue

Pilkington **Eclipse Advantage**™ Grey

CE

CE marking confirms that a product complies with its relevant harmonised European Norm.
The CE marking label for each product, including declared values, can be found at www.pilkington.com/CE.

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3721 – February 2006

IGU

Glass	Light		Solar Energy				Shading coefficient			U value
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance	Short Wavelength	Long Wavelength	Total	(W/m^2K)
IGU										
IGU – Outer Pane (with 16mm argon gas filled cavity and 6mm Pilkington Optifloat™ clear inner pane)										
6mm **Eclipse Advantage**™ Clear	0.60	0.29	0.47	0.22	0.31	0.55	0.54	0.09	0.63	1.6
6mm **Eclipse Advantage**™ Arctic Blue	0.35	0.13	0.21	0.09	0.70	0.28	0.24	0.08	0.32	1.6
6mm **Eclipse Advantage**™ Blue-Green	0.51	0.21	0.31	0.13	0.56	0.38	0.36	0.08	0.44	1.6
6mm **Eclipse Advantage**™ Bronze	0.34	0.13	0.28	0.11	0.61	0.35	0.32	0.08	0.40	1.6
6mm **Eclipse Advantage**™ EverGreen	0.43	0.17	0.22	0.09	0.69	0.28	0.25	0.07	0.32	1.6
6mm **Eclipse Advantage**™ Grey	0.29	0.11	0.24	0.09	0.67	0.31	0.28	0.08	0.36	1.6
IGU – Outer Pane (with 16mm argon gas filled cavity and 6mm Pilkington K Glass™ inner pane)										
6mm **Eclipse Advantage**™ Clear	0.56	0.31	0.42	0.23	0.35	0.53	0.48	0.13	0.61	1.3
6mm **Eclipse Advantage**™ Arctic Blue	0.33	0.14	0.19	0.09	0.72	0.26	0.22	0.08	0.30	1.3
6mm **Eclipse Advantage**™ Blue-Green	0.47	0.23	0.28	0.13	0.59	0.36	0.32	0.09	0.41	1.3
6mm **Eclipse Advantage**™ Bronze	0.32	0.13	0.25	0.11	0.64	0.34	0.29	0.10	0.39	1.3
6mm **Eclipse Advantage**™ EverGreen	0.40	0.18	0.19	0.10	0.71	0.26	0.22	0.08	0.30	1.3
6mm **Eclipse Advantage**™ Grey	0.27	0.11	0.21	0.09	0.70	0.29	0.24	0.09	0.33	1.3
IGU – Outer Pane (with 16mm argon gas filled cavity and 6mm Pilkington Opitherm™ SN inner pane)										
6mm **Eclipse Advantage**™ Clear	0.58	0.27	0.37	0.26	0.37	0.47	0.43	0.11	0.54	1.1
6mm **Eclipse Advantage**™ Arctic Blue	0.34	0.13	0.18	0.09	0.73	0.25	0.21	0.08	0.29	1.1
6mm **Eclipse Advantage**™ Blue-Green	0.49	0.20	0.26	0.14	0.60	0.33	0.30	0.08	0.38	1.1
6mm **Eclipse Advantage**™ Bronze	0.33	0.12	0.22	0.12	0.66	0.30	0.25	0.09	0.34	1.1
6mm **Eclipse Advantage**™ EverGreen	0.42	0.16	0.19	0.10	0.71	0.25	0.22	0.07	0.29	1.1
6mm **Eclipse Advantage**™ Grey	0.28	0.10	0.19	0.10	0.71	0.26	0.22	0.08	0.30	1.1

Determined in accordance with EN 410 and EN 673. Coating on surface 2. IGUs based on 90% argon gas fill.

Acoustic Performance:
2 x 6mm IGU with 6 to 16mm spacer with air or argon provides Rw(C;Ctr) 31 (-1;-4)
Acoustic performance figures taken from prEN12354-3:1997 and represent generic conservative figures.
Contact Pilkington for additional information.

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