



Pilkington Eclipse Advantage™



PILKINGTON

Pilkington Eclipse Advantage™ Pyrolytic Solar Control Glass with low E

Now you can dream in colour again.

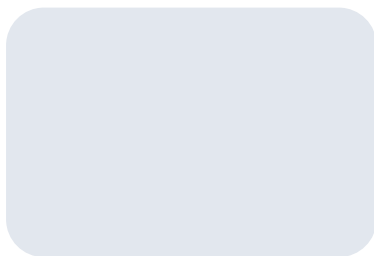
Major advances in glass technology, such as low E and solar control glass, have revolutionised the applications met by glass today. However, there have still been limitations on available products offering a combination of these properties together with a variety of colour ranges to meet individual requirements.

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 crisp, 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 WITHOUT COLOUR SHIFT** 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 (I.G.U.) 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.
- **EXCELLENT AVAILABILITY** for significantly reduced lead times and better control of project costs.
- **ALL COLOURS:** Clear, Arctic Blue, Blue-Green, Bronze, EverGreen and Grey are available in 4mm, 6mm and 8mm. Pilkington **Eclipse Advantage™** Clear is also available in 10mm.



Pilkington Eclipse Advantage™ EverGreen



Pilkington Eclipse Advantage™ Grey

Performance Data¹

Monolithic Glass

Product	Nominal Glass Thickness		Visible Light ²			Total Solar Energy ²			U-factor						Solar Heat Gain Coefficient	Shading Coefficient
			Transmittance %	Reflectance %		Transmittance %	Reflectance %	UV Transmittance ² %	U.S. Summer		U.S. Winter		European			
	in	mm		Outside	Inside				Air	Argon	Air	Argon	Air	Argon		

Pilkington Eclipse Advantage™ Reflective Low-E Glass Outer Pane (#2 Surface)

Eclipse Advantage Clear	1/4	6	67	25	28	58	19	30	0.53	-	0.67	-	3.8	-	0.62	0.72
Eclipse Advantage Grey	1/4	6	32	10	27	29	8	10	0.53	-	0.67	-	3.8	-	0.41	0.48
Eclipse Advantage Bronze	1/4	6	38	11	27	35	10	11	0.53	-	0.67	-	3.8	-	0.45	0.53
Eclipse Advantage Blue-Green	1/4	6	56	19	27	35	11	16	0.53	-	0.67	-	3.8	-	0.45	0.53
Eclipse Advantage EverGreen	1/4	6	48	15	27	23	8	7	0.53	-	0.67	-	3.8	-	0.36	0.43
Eclipse Advantage Arctic Blue	1/4	6	39	12	27	23	8	10	0.53	-	0.67	-	3.8	-	0.36	0.42
Eclipse Advantage Gold	1/4	6	41	32	41	47	20	7	0.62	-	0.75	-	4.2	-	0.53	0.62

Insulating Glass [Units constructed of equal glass thickness and 1/2" (12.7 mm) airspace]

Product	Nominal Glass Thickness		Visible Light ²			Total Solar Energy ²			U-factor						Solar Heat Gain Coefficient	Shading Coefficient
			Transmittance %	Reflectance %		Transmittance %	Reflectance %	UV Transmittance ² %	U.S. Summer		U.S. Winter		European			
	in	mm		Outside	Inside				Air	Argon	Air	Argon	Air	Argon		

Pilkington Eclipse Advantage™ Reflective Low-E Glass Outer Pane (#2 Surface) and Clear Float Glass Inner Lite

Eclipse Advantage Clear	1/4	6	60	29	31	46	21	24	0.35	0.30	0.35	0.30	1.9	1.7	0.55	0.63
Eclipse Advantage Grey	1/4	6	29	10	29	23	9	8	0.35	0.30	0.35	0.30	1.9	1.7	0.33	0.39
Eclipse Advantage Bronze	1/4	6	34	13	29	28	11	9	0.35	0.30	0.35	0.30	1.9	1.7	0.38	0.44
Eclipse Advantage Blue-Green	1/4	6	51	21	29	29	12	13	0.35	0.30	0.35	0.30	1.9	1.7	0.38	0.44
Eclipse Advantage EverGreen	1/4	6	43	17	30	20	9	6	0.35	0.30	0.35	0.30	1.9	1.7	0.29	0.33
Eclipse Advantage Arctic Blue	1/4	6	35	13	30	19	9	9	0.35	0.30	0.35	0.30	1.9	1.7	0.29	0.33
Eclipse Advantage Gold	1/4	6	37	33	41	36	22	6	0.39	0.35	0.38	0.34	2.2	1.9	0.46	0.53

Pilkington Eclipse Advantage™ Reflective Low-E Glass Outer Pane (#2 Surface) and Energy Advantage™ Low-E Glass Inner Lite (#3 Surface)

Eclipse Advantage Clear	1/4	6	56	30	30	41	22	19	0.30	0.25	0.31	0.26	1.7	1.4	0.53	0.61
Eclipse Advantage Grey	1/4	6	27	11	29	20	9	7	0.30	0.25	0.31	0.26	1.7	1.4	0.31	0.36
Eclipse Advantage Bronze	1/4	6	32	13	29	24	11	7	0.30	0.25	0.31	0.26	1.7	1.4	0.36	0.41
Eclipse Advantage Blue-Green	1/4	6	48	22	29	26	13	10	0.30	0.25	0.31	0.26	1.7	1.4	0.36	0.41
Eclipse Advantage EverGreen	1/4	6	40	18	29	18	9	5	0.30	0.25	0.31	0.26	1.7	1.4	0.27	0.31
Eclipse Advantage Arctic Blue	1/4	6	33	14	29	17	9	7	0.30	0.25	0.31	0.26	1.7	1.4	0.27	0.31
Eclipse Advantage Gold	1/4	6	35	34	39	31	23	5	0.31	0.26	0.32	0.27	1.8	1.5	0.43	0.50

For footnote reference please see the 24-page Pilkington Architectural Products brochure at our website, www.pilkington.com
U-Factor identical to and previously known as U-Value.

1. U-factor (Btu/hr-sq-ft/F) - Measure of the heat gain or loss through glazing due to environmental difference between the outdoor and indoor air. U-Factors given are center-of glass values calculated using LBNL Windows 5.2. Winter U-Factors are based on an outdoor temperature of -0.4°F (-18°C), an indoor temperature of 69.8°F (21°C) and a 12.3 mph (5.5m/s) wind velocity with no sun. Summer U-Factors are based on an outdoor temperature of 89.6°F (32°C), an indoor temperature 75.2°F (24°C), a solar intensity of 248.2 Btu/hr-sq-ft (783 W/sq-m) and a 6.3 mph (2.8 m/s) wind. To obtain metric U-Factor (W/sq-m°C) multiply by 5.678. "U-Factor" is identical to the previously known term of "U-Value"

2. Typical values of Pilkington production are provided.