



Pilkington **Eclipse Advantage™** Low-E Glass



PILKINGTON
NSG Group Flat Glass Business



Pilkington Eclipse Advantage™ Reflective Low-E Glass

There was a time when you could choose glass by color alone. Then along came Low-E, solar heat gain considerations, and all the inherent problems and compromises of soft coats. Pilkington advanced technology makes color practical again with an exciting choice, Pilkington **Eclipse Advantage™** Reflective Low-E Glass.

The world's first pyrolytic reflective Low-E. In a palette of natural colors that – because it's pyrolytic and not just a soft coat – won't shift, mottle or fade, even when heat-treated or bent.

An innovative Low-E glass that combines low emissivity with solar control, high visible light transmittance and glare control. And subtle reflectivity with crisp, consistent color.

The Pyrolytic Advantage

Pilkington **Eclipse Advantage™** Reflective Low-E Glass is manufactured by the patented Pilkington pyrolytic process. In this on-line chemical vapor deposition process, a gas reacts with the semi-molten surface of a ribbon of float glass to form a reflective coating on clear and tinted substrates.

The result is a product that combines solar and thermal control with the high visible light transmittance, subtle reflectivity, glare control, and the crisp, consistent color that only a pyrolytic can provide.



Product Features

- Combines higher daylight transmittance lower visible reflectance, and solar control properties in a single pyrolytic surface.
- Design flexibility achieves a crisp, natural color with subtle reflectivity, high visible light transmittance and interior glare control when Pilkington **Eclipse Advantage™** Glass is glazed with a pyrolytic #2 surface.
- Because of the durable pyrolytic surface all Pilkington **Eclipse Advantage™** Glass products can be handled, cut, insulated, laminated, heat-strengthened, tempered and bent using standard techniques.
- Heat treatable without color shift which can result in a significant reduction of lead times and production losses when heat-strengthening or tempering are required.
- Energy efficient combining low-emissivity with solar control for considerable energy cost reductions compared to ordinary glasses.
- Reduced UV transmittance limits color fading and breakdown of plastic materials, with more of the sun's damaging radiation effectively blocked.
- Sealant compatible with I.G. sealing compounds and structural silicone sealants most commonly used, with no edge deletion required. Specific compatibility questions should be directed to the sealant manufacturer.
- Color and surface uniformity within each lite and consistency from run to run make Pilkington **Eclipse Advantage™** Glass ideal for new construction and replacement applications.
- Excellent availability for significantly reduced lead times and better control of project costs.
- Available in 1/4" (6mm) standard thickness. Other thicknesses and sizes may be available upon request.
- Available in a palette of colors including **Evergreen™**, **Blue-Green**, **Clear**, **Arctic Blue™**, **Grey**, **Bronze**, and **Gold**.



Pilkington **Eclipse Advantage™** Grey



Pilkington **Eclipse Advantage™** Bronze



Pilkington **Eclipse Advantage™** Blue-Green



Pilkington **Eclipse Advantage™** Evergreen



Pilkington **Eclipse Advantage™** Arctic Blue



Pilkington **Eclipse Advantage™** Gold

Monolithic Glass

Product	Nominal Glass Thickness		Visible Light ²			Total Solar Energy ²			U-Factor ⁵						Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
			Transmittance ³ %	Reflectance ⁴ %		Transmittance ³ %	Reflectance ⁴ %	UV Transmittance ² %	U.S. Summer		U.S. Winter		European ⁶			
	in	mm		Outside	Inside				Air	Argon	Air	Argon	Air	Argon		

Pilkington Eclipse Advantage™ Low-E

Eclipse Advantage Clear	1/4	6	66	22	27	56	17	28	0.53	–	0.67	–	3.8	–	0.61	0.71
Eclipse Advantage Grey	1/4	6	32	9	26	29	8	10	0.53	–	0.67	–	3.8	–	0.41	0.48
Eclipse Advantage Bronze	1/4	6	40	11	26	35	9	11	0.53	–	0.67	–	3.8	–	0.46	0.53
Eclipse Advantage Blue-Green	1/4	6	56	17	27	35	10	16	0.53	–	0.67	–	3.8	–	0.45	0.53
Eclipse Advantage EverGreen	1/4	6	49	14	26	23	8	7	0.53	–	0.67	–	3.8	–	0.37	0.43
Eclipse Advantage Arctic Blue	1/4	6	41	11	26	24	8	11	0.53	–	0.67	–	3.8	–	0.37	0.44
Eclipse Advantage Gold	1/4	6	38	35	45	46	21	7	0.61	–	0.74	–	5.7	–	0.52	0.61

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

Product	Nominal Glass Thickness		Visible Light ²			Total Solar Energy ²			U-Factor ⁵						Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
			Transmittance ³ %	Reflectance ⁴ %		Transmittance ³ %	Reflectance ⁴ %	UV Transmittance ² %	U.S. Summer		U.S. Winter		European ⁶			
	in	mm		Outside	Inside				Air	Argon	Air	Argon	Air	Argon		

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

Eclipse Advantage Clear	1/4	6	60	26	30	45	20	22	0.35	0.30	0.34	0.30	1.9	1.7	0.54	0.62
Eclipse Advantage Grey	1/4	6	29	9	28	23	9	8	0.35	0.30	0.34	0.30	1.9	1.7	0.33	0.39
Eclipse Advantage Bronze	1/4	6	36	12	29	28	10	9	0.35	0.30	0.34	0.30	1.9	1.7	0.38	0.44
Eclipse Advantage Blue-Green	1/4	6	51	20	29	29	11	13	0.35	0.30	0.34	0.30	1.9	1.7	0.38	0.44
Eclipse Advantage EverGreen	1/4	6	44	16	29	20	9	6	0.35	0.30	0.34	0.30	1.9	1.7	0.29	0.34
Eclipse Advantage Arctic Blue	1/4	6	37	13	29	20	8	9	0.35	0.30	0.34	0.30	1.9	1.7	0.30	0.34
Eclipse Advantage Gold	1/4	6	34	37	44	36	23	5	0.38	0.34	0.37	0.34	2.2	1.9	0.45	0.52

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

Eclipse Advantage Clear	1/4	6	56	27	29	39	21	18	0.30	0.25	0.31	0.26	1.7	1.4	0.51	0.59
Eclipse Advantage Grey	1/4	6	27	10	28	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	33	12	28	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	47	21	28	25	12	10	0.30	0.25	0.31	0.26	1.7	1.4	0.36	0.41
Eclipse Advantage EverGreen	1/4	6	41	17	28	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	34	13	28	18	8	7	0.30	0.25	0.31	0.26	1.7	1.4	0.28	0.32
Eclipse Advantage Gold	1/4	6	32	37	42	31	24	4	0.31	0.26	0.32	0.27	1.8	1.5	0.42	0.49

****Note: Eclipse Advantage™ Low-E Glass can be glazed monolithically, or incorporated into an insulating glass unit, with the coating on the #2 (room side) surface. It is not intended for use on the #1 surface.**

It's all just a few keystrokes away

All this and more are waiting for you at www.pilkington.com, your #1 source for glass and glazing information.

For more personalized assistance, to talk to one of our sales representatives, or request samples or technical information, please call Pilkington domestic sales at 800 221 0444.

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Note: Due to reproduction and printing limitations, photos may vary from actual glass colors. Please refer to glass samples from Pilkington.