



New Pilkington **Eclipse Advantage™** Glass

*Pilkington advanced technology brings you the world's first **pyrolytic** reflective Low-E glass.*



PILKINGTON

First in Glass

Introducing Pilkington's
newest advanced technology

Low-E.

NEW Pilkington Clear Eclipse Advantage™
Reflective Low-E Glass

NEW Pilkington Grey Eclipse Advantage™
Reflective Low-E Glass

NEW Pilkington Bronze Eclipse Advantage™
Reflective Low-E Glass

NEW Pilkington Arctic Blue Eclipse Advantage™
Reflective Low-E Glass

NEW Pilkington Blue-Green Eclipse Advantage™
Reflective Low-E Glass

NEW Pilkington EverGreen Eclipse Advantage™
Reflective Low-E Glass

Now, you can dream in color again.

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.

But now, Pilkington advanced technology makes color practical again with an exciting new choice.

New Pilkington **Eclipse Advantage™** 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.

For the performance your buildings demand.

And the color your dreams deserve.

Without compromise.

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** Achieve 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. Or, where higher reflectivity is called for, the durable pyrolytic surface of Pilkington **Eclipse Advantage™** Glass can even be glazed on the #1 surface.
- **DURABLE PYROLYTIC SURFACE** All Pilkington **Eclipse Advantage™** Glass products can be handled, cut, insulated, laminated, heat-strengthened, tempered and bent using standard techniques.



Cover image - clockwise from top left:
Arctic Blue™, Grey, Blue-Green, Bronze, Clear
and EverGreen **Eclipse Advantage™** Reflective
Low-E Glass.

- *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.

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1. Pilkington Blue-Green **Eclipse Advantage™** Reflective Low-E Glass
2. Pilkington EverGreen **Eclipse Advantage™** Reflective Low-E Glass
3. Pilkington Arctic Blue **Eclipse Advantage™** Reflective Low-E Glass
4. Pilkington Grey **Eclipse Advantage™** Reflective Low-E Glass
5. Pilkington Clear **Eclipse Advantage™** Reflective Low-E Glass
6. Pilkington Bronze **Eclipse Advantage™** Reflective Low-E Glass

Performance Data^{1,10}

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		

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

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

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		

Pilkington Eclipse Advantage™ Reflective 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

Pilkington Eclipse Advantage™ Reflective 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

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.

Your #1 Source for Glass and Glazing Information



PILKINGTON

First in Glass

Pilkington Building Products

North America

P.O. Box 799

811 Madison Ave.

Toledo, OH 43697-0799

Telephone 419 247 3731

800 221 0444

Fax 419 247 4517

E-mail:

building.products@us.pilkington.com

Website:

www.pilkington.com

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.

**Pilkington Building Products
North America Corporate Office**
P.O. Box 799, 811 Madison Ave.
Toledo, OH 43697-0799
419 247 3731 • Fax 419 247 4517



International

Toledo, OH Sales Office
419 247 4943 • Fax 419 247 4573

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