

**It's time
to take the
gloves off.**



PILKINGTON



You don't need them anymore.

How Pilkington's new Pyrolytic 1-2 Punch can help you K-O the competition.

Introducing Pilkington **Solar E™** Glass...
the world's first pyrolytic solar control Low-E on clear glass.



This actual unretouched photograph through Pilkington **Solar E** Glass (*right*) and without any glass (*left*) demonstrates Solar E Glass' clear aesthetics.

Until now, if you wanted solar control in a Low-E glass, you had to use a soft coat (or sputter-coated) product...with all the problems of special handling, edge deletion, limited shelf life and inconsistent aesthetics.

But now, there's a new solar control Low-E glass, produced by a revolutionary, breakthrough technology that you don't have to handle with kid gloves.

Pilkington **Solar E** Solar Control Low-E Glass.

Not just a coated glass, but with a durable pyrolytic surface that resists scratching, doesn't require edge deletion and has an unlimited shelf life. Manufactured by Pilkington's advanced-technology process for a consistent appearance, even when comparing annealed glass to tempered glass.

In fact, Pilkington **Solar E** Glass is so durable, you can even use it in monolithic applications, for enhanced performance in a single pane of glass. (Just try that with a soft coat!)

With all the benefits of pyrolytics, Pilkington **Solar E** Glass is the perfect solution for meeting energy codes and Energy Star® requirements in cooling-dominated climates.

And for heating-dominated climates...

If every part of the country had the same warm climate, then a solar control Low-E would be the best answer for everyone.

But in heating-dominated areas, solar control Low-E glass can actually increase energy consumption, by blocking valuable passive solar heat gain in the winter.



And that's where Pilkington **Energy Advantage™** Low-E Glass shines.

Specifically designed for heating-dominated climates, Pilkington **Energy Advantage** Low-E Glass turns your windows into a source of free energy by combining high passive solar heat gain in winter with excellent thermal performance all year around, to give your windows a real performance advantage over any other glass.

No matter where you are, we've got your glass.

So whether your market is heating-dominated, cooling dominated or in-between (where either **Solar E** or **Energy Advantage** Low-E Glass can give your windows a big performance advantage), Pilkington has the right glass for you.

With the performance and the aesthetics your customers want and demand.

Without edge deletion, special handling, or any of the other costly hassles of processing soft-coat products through your plant.

And that's a winning combination.

In heating-dominated climates, Pilkington Energy Advantage Low-E Glass gives your windows a competitive advantage by combining high passive solar heat gain in winter with excellent thermal performance all year around.



Where heating and cooling loads are balanced, either **Solar E** or **Energy Advantage Low E Glass** offers premium thermal performance all year around.

In cooling-dominated climates, Pilkington Solar E Solar Control Low-E Glass provides both solar and thermal control in a durable, scratch-resistant pyrolytic product that doesn't degrade or require special handling or edge deletion.

The Pilkington Pyrolytic Advantage



New Pilkington
Solar E™ Solar Control
Low-E Glass

Pilkington
Energy Advantage™
Low-E Glass

Solar E™ Solar Control Low-E Glass

Nominal Glass Thickness		Visible Light		Total Solar Energy		UV	U-Value				European U-Value (K-Value)		Solar Heat Gain Coefficient	Shading Coefficient
		Transmittance %	Reflectance %	Transmittance %	Reflectance %	Transmittance %	Summer		Winter		Air	Argon		
							Air	Argon	Air	Argon				
in	mm													

Monolithic Glass Performance Data (Solar E™ Solar Control Low-E Glass, Coating on #2 Surface)

3/32	2.5	58	7	47	8	51	0.68	-	0.74	-	3.6	-	0.55	0.64
1/8	3	59	8	47	8	49	0.68	-	0.73	-	3.6	-	0.55	0.64
5/32	4	61	7	47	8	48	0.68	-	0.73	-	3.6	-	0.55	0.64
3/16	5	61	8	46	8	47	0.68	-	0.73	-	3.6	-	0.54	0.63
1/4	6	60	7	45	7	45	0.68	-	0.73	-	3.6	-	0.53	0.62

Insulating Glass Performance Data (Solar E Solar Control Low-E Glass, Coating on #2 Surface, and Optifloat™ Clear Float Glass Inner Lite)

3/32	2.5	53	10	41	10	41	0.36	0.31	0.34	0.29	1.8	1.5	0.47	0.55
1/8	3	54	10	40	10	39	0.36	0.31	0.33	0.28	1.8	1.5	0.47	0.55
5/32	4	55	11	39	10	37	0.36	0.31	0.33	0.29	1.8	1.5	0.47	0.54
3/16	5	55	11	38	10	36	0.36	0.31	0.33	0.29	1.8	1.5	0.46	0.54
1/4	6	54	10	36	9	34	0.36	0.31	0.33	0.28	1.8	1.5	0.45	0.52

Energy Advantage™ Low-E Glass

Nominal Glass Thickness		Visible Light		Total Solar Energy		UV	U-Value				European U-Value (K-Value)		Solar Heat Gain Coefficient	Shading Coefficient
		Transmittance %	Reflectance %	Transmittance %	Reflectance %	Transmittance %	Summer		Winter		Air	Argon		
							Air	Argon	Air	Argon				
in	mm													

Monolithic Glass Performance Data (Energy Advantage™ Low-E Glass, Coating on #2 Surface)

3/32	2.5	83	11	70	11	59	0.63	-	0.74	-	3.7	-	0.73	0.85
1/8	3	82	11	68	11	56	0.63	-	0.74	-	3.6	-	0.72	0.83
5/32	4	82	10	67	10	54	0.63	-	0.73	-	3.6	-	0.70	0.82
3/16	5	83	11	67	11	53	0.63	-	0.73	-	3.6	-	0.70	0.82
1/4	6	82	10	65	10	49	0.63	-	0.73	-	3.6	-	0.69	0.81

Insulating Glass Performance Data (Optifloat Clear Float Glass Outer Lite and Energy Advantage Low-E Glass Inner Lite, Coating on #3 Surface)

3/32	2.5	76	18	61	18	48	0.36	0.30	0.34	0.29	1.8	1.5	0.72	0.84
1/8	3	75	18	58	17	45	0.36	0.30	0.34	0.29	1.8	1.5	0.70	0.82
5/32	4	74	17	55	16	42	0.36	0.30	0.33	0.28	1.8	1.5	0.69	0.80
3/16	5	74	17	54	16	40	0.36	0.30	0.33	0.28	1.8	1.5	0.67	0.78
1/4	6	73	17	52	15	36	0.36	0.30	0.33	0.28	1.8	1.5	0.66	0.76



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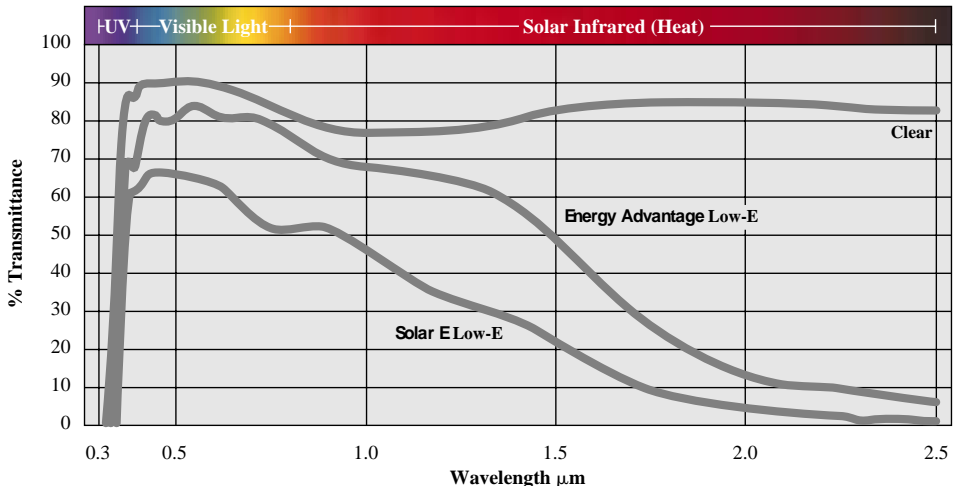


"Our customers assemble ENERGY STAR® qualified products using Pilkington's Energy Advantage™ Low-E Glass and Solar E™ Solar Control Low-E Glass."

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Solar Energy Transmittance – Pilkington Solar E, Energy Advantage Low-E and 3mm Optifloat Clear Glass



This graph shows how Solar E Solar Control Low-E Glass reduces solar heat gain by rejecting most of the solar infrared wavelengths while still transmitting a high percentage of visible light. Energy Advantage Low-E Glass by contrast, transmits significantly more visible and infrared energy. This is the beneficial passive solar heating that it contributes to heating dominated climates. Clear glass by comparison, transmits the most energy, but lacking a low emissivity coating, it cannot reduce unwanted summer heat gains or costly winter nighttime heat loss.