

Pilkington Energy Advantage™ Low-E Glass

Description

Created using a patented color suppression process, Pilkington **Energy Advantage™** Low-E Glass is consistently color neutral and offers true high performance with emissivity 55 percent lower than first generation pyrolytics. By allowing much of the direct solar heat gain through the glazing, **Energy Advantage™** is often referred to as a “passive solar” glass product. **Energy Advantage™** is the Low-E glass of choice for residential and commercial applications that have a heating dominated HVAC load.

Also, using Pilkington **Energy Advantage™** Low-E Glass as the inboard lite in an I.G. unit creates a superior Pilkington **Sun Management™** Glass System that optimizes the solar control and energy efficiency of any glass – from clear float to high-performance tints, to Pilkington **Eclipse Advantage™** Solar Control Low-E Glass.

Note:

Other Pilkington Low-E products such as Pilkington **Eclipse Advantage™** and **Solar-E™** provide excellent thermal control. Full product descriptions for both can be found in the solar control section.

What is Low Emissivity?

Emissivity measures how strongly a product emits or radiates absorbed heat. The lower the number, the more efficiently the glass reduces conductive heat gain or heat loss, which means a lower U-Factor and better insulation. For comparison, uncoated glass has an emissivity of 0.84 and Pilkington **Energy Advantage™** is 0.15, which means only 15 percent of heat absorbed is re-emitted from the coated side. This feature is useful as it reflects energy back towards where it came from. If a solar control glass is used, then adding a lite of Low-E on the room side acts as a barrier to the absorbed heat in the glass passing to the inside of the building. For buildings that require passive heat gains, a low emissivity coating with clear glass allows direct solar radiation to pass through the glass and then traps it inside. So Pilkington **Energy Advantage™** reduces energy use.

Features and Benefits

- Color Neutral
- Durable Pyrolytic Surface
- Energy Efficient
- Easily Fabricated
- Improved Design Flexibility
- Excellent Availability
- Reduced Lead Times

Applications

- Commercial and Residential Buildings Requiring Solar and Thermal Control
- Low, Mid and Hi-Rise
- Medical/Hospital
- Educational/Schools
- Office
- Retail
- Residential



Technical Bulletins

ATS 133
Cleaning Low-E

ATS 135
Handling, Inspection and Fabrication of Low-E

ATS 137-3
Appearance of Low-E

ATS 138
How Low-E works

ATS 143
Hand Cleaning Low-E

ATS 148
Plant Growth Behind Low-E

ATS 161
First Surface Condensation

ATS 162
Single Glazing Low-E

