



## Pilkington **Solar-E™** & Pilkington **Solar-E™** Plus

### Solar control glass with low-e properties

A range of solar control clear or body-tinted coated glass with medium light transmittance, low light reflectance, and low emissivity. The durable coating is applied pyrolytically during float glass manufacture to a variety of substrates, giving a range of colours in reflection – Pilkington **Solar-E™** Clear & Pilkington **EverGreen™**, and Pilkington **Solar-E™** Plus Blue-Green, Grey & Arctic Blue. Pilkington **Solar-E™** & Pilkington **Solar-E™** Plus can be used in single glazing applications, provided that the coating faces the interior of the building.

## Pilkington Solar-E™ & Pilkington Solar-E™ Plus – technical performance

Product/outer pane	Light (%)		Solar Radiant Heat (%)				Total Shading Coefficient	U <sub>g</sub> [W/m <sup>2</sup> K]
	Transmittance	Reflectance Out	Direct Transmittance	Reflectance	Absorptance	Total Transmittance		Argon (90%)
Single glass: 6 mm Pilkington <b>Solar-E™</b> & Pilkington <b>Solar-E™</b> Plus								
Pilkington <b>Solar-E™</b> Clear	60	8	46	8	46	53	0.61	3.6
Pilkington <b>Solar-E™</b> EverGreen	44	6	22	5	73	33	0.38	3.6
Pilkington <b>Solar-E™</b> Plus Arctic Blue	30	5	19	5	76	30	0.34	3.7
Pilkington <b>Solar-E™</b> Plus Blue-Green	42	6	27	5	68	37	0.43	3.7
Pilkington <b>Solar-E™</b> Plus Grey	25	5	20	5	75	32	0.37	3.7
Insulating glass unit construction: 6 mm Pilkington <b>Solar-E™</b> – 16 mm argon – 4 mm Pilkington <b>Optifloat™</b> Clear								
Pilkington <b>Solar-E™</b> Clear	54	11	40	10	50	45	0.52	1.5
Pilkington <b>Solar-E™</b> EverGreen	41	8	20	6	74	25	0.29	1.5
Pilkington <b>Solar-E™</b> Plus Arctic Blue	27	6	17	5	78	22	0.25	1.5
Pilkington <b>Solar-E™</b> Plus Blue-Green	39	7	24	6	70	29	0.33	1.5
Pilkington <b>Solar-E™</b> Plus Grey	22	5	18	5	77	23	0.26	1.5
Insulating glass unit construction: 6 mm Pilkington <b>Solar-E™</b> – 16 mm argon – 4 mm Pilkington <b>Optitherm™</b> S3								
Pilkington <b>Solar-E™</b> Clear	54	9	34	11	55	40	0.46	1.1
Pilkington <b>Solar-E™</b> EverGreen	40	7	19	6	75	23	0.26	1.1
Pilkington <b>Solar-E™</b> Plus Arctic Blue	27	5	15	5	80	20	0.23	1.1
Pilkington <b>Solar-E™</b> Plus Blue-Green	38	6	21	6	73	26	0.30	1.1
Pilkington <b>Solar-E™</b> Plus Grey	22	5	15	5	80	20	0.23	1.1

Pilkington Solar-E™ coating on surface #2.

The above performance data has been determined in accordance with EN 410 and EN 673.

### Features and benefits

- Good solar control performance with low-emissivity properties, reducing the need for heating and cooling the building.
- Medium light transmittance and low light reflectance for undistorted, natural views.
- Additional thermal insulation performance when combined in an insulating glass unit with a low-emissivity glass.
- Durable pyrolytic on-line coating is easy to handle and process, providing a low-cost solution with high visual impact.
- Can be laminated, toughened, bent, and enamelled using standard techniques.
- Can be used in monolithic form or incorporated in insulating glass units, and has an unlimited shelf-life.
- No edge deletion required.
- Available in the following thicknesses: Pilkington **Solar-E™** Clear in 3, 4, 5, 6, 8 and 10 mm; EverGreen 6 and 8 mm; Pilkington **Solar-E™** Plus in 6 mm only.

### Applications

Pilkington **Solar-E™** and Pilkington **Solar-E™** Plus provide an attractive solution to various applications where medium light transmittance with enhanced solar control performance is required. Thanks to low exterior light reflectance, the product is widely used for modern glass façades where high reflectance is prohibited or undesirable.

The Pilkington **Solar-E™** Plus coating offers enhanced solar absorption when compared to Pilkington **Solar-E™**.

These products are the perfect solution for glazing in hot, high solar radiation environments, softening the impact of harsh direct sunlight on your window.

Pilkington **Solar-E™** and Pilkington **Solar-E™** Plus can be toughened or laminated where a safety glass is required. Toughened or heat strengthened glass should also be specified in applications where Pilkington **Solar-E™** and Pilkington **Solar-E™** Plus may be at risk of thermal breakage.

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