

# THE 80 BL ER HPR - Helios 80

Technical data according to EN 410 and EN 673	4 mm single	4 / 16 / 4 mm double
Corrected emissivity of uncoated glass surface		0.837
Solar Energy Transmission, $\tau_e$	43 %	37 %
Solar Energy Reflection, $\rho_e$	6 %	9 %
Solar Energy Absorption, $a_e$	50 %	54 %
Visible Light Transmission, $\tau_V$	77 %	70 %
Visible Light Reflection (External), $\rho_{Ve}$	8 %	13 %
Visible Light Reflection (Internal), $\rho_{Vi}$	8 %	15 %
Ultraviolet Transmission, $\tau_{UV}$		< 0.1 %
Ultraviolet Rejection		> 99.9 %
g value	0.55	0.45
Shading Coefficient	0.63	0.51
Total Solar Energy Rejected	45 %	55 %
Glare Reduction	12 %	21 %
U value, single glazing (W/m <sup>2</sup> .K)	5.70	-
U value, double glazing, Air filled (W/m <sup>2</sup> .K)	-	2.70
Emissivity, $\epsilon_n$		0.87
Thickness without liner		95 $\mu$
Colour Rendering Index, $R_a$	93	92
Film Colour / Appearance		Light Blue
Installation position		Exterior
Warranty		7 years vertical / 5 years sloping (slopes 20 degrees or more from horizontal)**
Installation Notes: Edge sealing required. Use Film On for installation.		

\* Please check the complete Film to Glass Thermal Stress Compatibility Guidelines **before** film installation. \*\* Contact Solutia Performance Films for full details. All values for engineering parameters are determined by the manufacturer and independent testing laboratories.

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## Features & Benefits

- Light solar control film for reducing heat and retaining very high visible light transmission – very spectrally selective
- 'Clear' solar control exterior grade film – very light blue tint complements natural blue/green colour of standard glass
- Infra-red absorber material is dispersed throughout the polyester film; this material has very little effect on visible light but blocks infra red
- Special technology polymeric scratch resistant coating provides increased durability and easier cleaning – patent applied for
- Helios technology includes hydrophobicity (water resistance), oleophobicity (oil resistance) and UV blocking, giving excellent weather resistance and durability
- Improvement of working conditions – reduction in solar heat gain
- Outstanding optical properties, minimal impact on visual appearance of building
- No metal so it does not interfere with mobile phones, radios, etc., and zero possibility of demetallisation
- Does not increase visible light reflection of glazing, ideal for shop windows
- UV blocking is in the scratch resistant coating, the polyester film, and in the adhesive, which provides exceptional performance and durability
- Excellent UV filtering helps to reduce fading of textiles, furniture, and works of art
- No significant change in haze and no dependence upon viewing angle for appearance
- Well adapted to single, double and double low-E insulating glazing systems
- Exterior installation (can also be used for internal installation)

## Spectra

