



Sol+Guard™

© Plastipack Ltd

The Best Cover for Solar Gains

500 Micron



www.geobubble.co.uk



Sol+GuardTM

© Plastpack Ltd

Key Benefits:

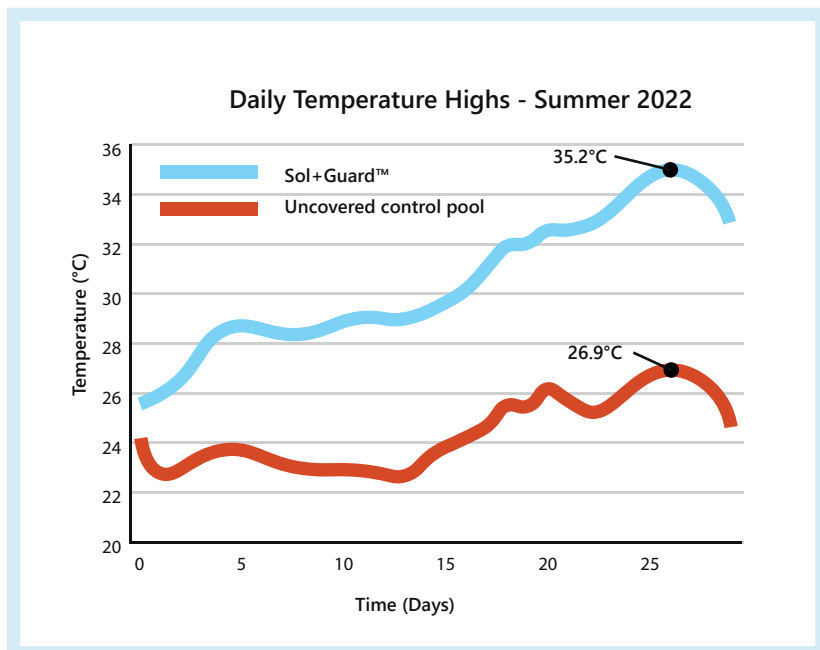
- 🔗 Increase water temperature by up to 8°C
- 🔗 Reduce energy consumption by over 70%
- 🔗 Reduce chemical consumption by up to 40%
- 🔗 Eliminate evaporation by 98%
- 🔗 Reduce debris contamination
- 🔗 Save money and reduce the environmental impact of your pool
- 🔗 8+ years expected lifespan
- 🔗 With GeoBubbleTM Technology
- 🔗 Pay back the cost of a cover within 1 year
- 🔗 Available with reinforcing weave



Sol+Guard™ increases pool temperature by up to 8°C

Sol+Guard™ is a high-performance solar pool cover designed specifically to maximise solar gains, and heat the water of the swimming pool. By raising pool temperatures by up to 8°C, this best-selling solar pool cover material helps to save energy, money and reduce the environmental impact of your pool.

In the summer of 2022, testing was conducted on outdoor test pools, located at our state-of-the-art testing facility in South East England. The scope of these tests was to determine the benefits of covering an outdoor pool with our Sol+Guard™ material with GeoBubble™ technology. In order to achieve this one test pool was fitted with a Sol+Guard™ cover fabricated in house, and another left uncovered to act as a control.



As shown in the above graph, the pool covered with Sol+Guard™ was consistently warmer than the uncovered control pool for the duration of the test.

The pool covered with the Sol+Guard™ achieved a maximum temperature variance of +8°C towards the end of the testing period. This shows that on the warmest days, and during extended periods of unseasonably warm weather, the solar gains achieved by using Sol+Guard™ can be significant.

Observed temperature gains when using a Sol+Guard™ cover are highly dependent on the local climate.

Solar Gains

The Sol+Guard™ 500 micron transparent solar pool cover material transmits 80% of the sun's energy in the visual and IR spectrum through the material to heat the water and basin of the swimming pool. Tests in the UK have shown temperature increases of up to 6°C and testimonials from hotter climates estimate up to 8°C above the ambient pool temperature, reducing the heating demand by up to 70%.

Heat Retention

The unique profile of the GeoBubble™ technology air cells provide this cover with both buoyancy and an insulative air gap to control heat transfer, enabling the material to manage the pool environment and keep the pool at the desired temperature.

Prevents evaporation

The material provides a barrier to evaporation, giving the pool the ability to preserve water and reduce heat loss through evaporative cooling. Evaporative losses have the largest impact in maintaining a pool's temperature, responsible for 70% of the overall heat loss from a uncovered pool. Plastipack materials are tested to prevent over 98% of evaporative losses.

***"Sol+Guard™
reduced my heating
bill by 25%"***

**Bob Bowles,
East Sussex, UK**



Specification Sheet

Polyethylene Film	Dual-Extruded		
UV Protection	140 kLys/yr 0.9% Additive 180 kLys/yr 1.2% Additive		
Colour	Translucent Sea Blue		
Thermal Properties	Vicat Softening Point (1kg) 93°C		
Cold Crack Temperature	-25°C		
500 microns thickness	Bubble Film = 350 micron +/- 10%		
*700 microns thickness	Back film = 150 micron +/- 10%		
	*Woven top layer = 240 micron +/- 10%		
Weight per m²	460gms +/- 10%		
	*637gms +/- 10%		
Overall Bubble Width	2000mm / 2500mm +/- 1%		
Welding Edges	30mm +/- 10%		
Overall Width	2060mm / 2560mm +/- 10%		
Roll Diameter	0.80m +/- 1%		
Roll Length	102m +/- 2%		
Est. Quantity for 120m³ truck	2.5m = 14,535m ² = 57 rolls 2m = 15,912m ² = 78 rolls		
Est. Quantity Containers	20ft = 4,692m ² = 23 rolls 40ft = 11,220m ² = 55 rolls		
Packaging	Packaged in Polyethylene bags		
Core Diameters	Internal 76mm/External 80mm		
Identification	Batch Identification by Q.A. slip and label showing Length/Grade		
Warranty	8 year pro rata warranty		
GEOBUBBLE™ TECHNOLOGY			
Bubble Width x Length	15x30mm		
Bubble Height	5.5mm		
No. of bubble per m²	1943		
*WOVEN TOP SHEET			
	Material	Tensile Strength (N/m)	Tear Strength (N)
Warp	HDPE	50	160
Weft	HDPE	50	160



The UK's Leading Independent Swimming Pool Manufacturer and Distributor