O Plastipack Ltd The Best Cover for Solar Gains 500 Micron GeoBubble

www.geobubble.co.uk

Sol-Guard Plestipack Ltd

Key Benefits:

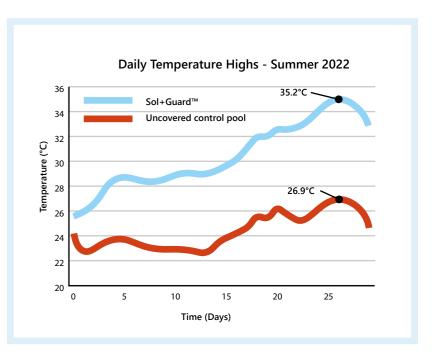
- Increase water temperature by up to 8°C
- Reduce energy consumption by over 70%
- Reduce chemical consumption by up to 40%
- Eliminate evaporation by 98%
- Reduce debris contamination
- Save money and reduce the environmental impact of your pool
- 😂 8+ years expected lifespan
- With GeoBubble™ Technology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

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.

by up to 8°C

Sol+Guard™ increases pool temperature

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.



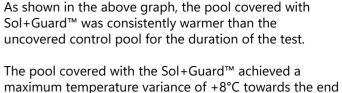
Solar Gains

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%.

500

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.



maximum temperature variance of +8°C towards the en 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 $^{\text{TM}}$ cover are highly dependent on the local climate.





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/yrs 0.9% Additive 180 kLys/yrs 1.2% Additive		
Colour			Translucent Sea Blue		
Thermal Properties			Vicat Softening Point (1kg) 93°C		
Cold Crack Temperature			-25°C		
500 microns thickness *758 microns thickness			Bubble Film = 350 micron +/- 10% Back film = 150 micron +/- 10% *Woven top layer = 258 micron +/- 10%		
Weight per m²			460gms +/- 10%		
3			*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			$2.5m = 14,535m^2 = 57 \text{ rolls}$ $2m = 15,912m^2 = 78 \text{ rolls}$		
Est. Quantity Containers			$20\text{ft} = 4,692\text{m}^2 = 23 \text{ rolls}$ $40\text{ft} = 11,220\text{m}^2 = 55 \text{ rolls}$		
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 m ²			1943		
*WOVEN TOP SHEET					
	Material	Tensile S	Strength (N/m)	Tear Strength (N)	
Warp	HDPE	50		160	
Weft	HDPE	50		160	

Company information: www.plastipack.co.uk

Product information: www.geobubble.co.uk

Water storage: www.vapourguard.co.uk



