

with GeoBubble™ technology



www.geobubble.co.uk



The unique GeoBubble™ design and additive package of the Guard product range have been scientifically developed to provide higher performance and longevity of the blended polyethylene cover material. Providing a sustainable 100% recyclable (LDPE 4) and cost saving product which comes with a 6-year pro rata manufactures warranty

Prevents

evaporation

Plastipack Ltd has been awarded the 2018 Institute of Physics Business Innovation Award for the development of EnergyGuard™ Selective Transmission material in collaboration with the University of Surrey. The award recognises Plastipack's excellence in innovation, delivering significant economical and societal impact through the application of physics.



- Award-winning material
- on Increase water temperature by up to 7°C
- on Inhibit algae growth
- **Reduce energy** consumption by up to 60%
- Reduce chemical consumption by up to 60%
- **Reduce filtration time by** up to 50%
- co Can be used as winter cover material
- **Eliminates** water evaporation by 98%+
- ea Reduce debris contamination
- Save money and shrink the carbon footprint of your pool
- 6 year + expected lifespan
- **™** With GeoBubble **™** Technology

Selective Transmission

Algae Inhibition

Selective Transmission

Maximise pool temperature and inhibit algae growth

Maximising pool temperature and inhibiting algae growth at the same time

is now possible with this innovative light filtering material, meaning there

is no need to compromise between temperature and chemical savings.

EnergyGuard™ Selective Transmission material now effectively delivers

filtration reductions, making it the most innovative solar cover to date.

Offering optimised solar gain and algae inhibition, the patented

the best possible balance between solar heat gain, chemical and

The bubble layer of the material uses a patented midnight blue pigment combination which gives the material its selective transmission properties. The pigment formulation works as a selective filter absorbing the visible wavelengths responsible for photosynthesis. This absorbed energy is passed to the pool through conduction, while the transmission properties of the bubble layer allows for Infrared radiation (IR) wavelengths to pass through the material and be directly absorbed by the water.



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

Insulates to prevent heat transfer

The unique profile of the GeoBubble™ technology air cells provides 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.

Reduces heating Reduces costs chemical usage

pump time

Reduces filtration/

Heat retention

Manufactured by

PLASTIPACK LIMITED

Inhibits algae growth

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Selective

Transmission

Reduces debris



Specification Sheet

Polyethylene Film	Dual-Extruded
UV Protection	140 kLys/yrs 0.9% Additive 180 kLys/yrs 1.2% Additive
Colour	Midnight Blue
Thermal Properties	Vicat Softening Point (1kg) 93°C
Cold Crack Temperature	-25°C
500 microns thickness	Bubble Film = 350 micron +/- 10% Back film = 150 micron +/- 10%
Weight per m²	460gms +/- 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	$2.5 \text{m} = 14,535 \text{m}^2 = 57 \text{ rolls}$ $2 \text{m} = 15,912 \text{m}^2 = 78 \text{ rolls}$
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	6 year pro rata warranty
GEOBUBBLE™ TECHNOLOGY	
Bubble Width x Length	15x30mm
Bubble Height	5.5mm
No. of bubble per m²	1943

Company Information: www.Plastipack.co.uk

Product information: www.GeoBubble.co.uk

Water Storage: www.VapourGuard.co.uk

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