

new
EnergyGuardTM
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Selective Transmission

**Increased solar gains
with algae inhibition**



45 YEARS **Plastica**

The UK's Leading Independent Swimming Pool Manufacturer and Distributor

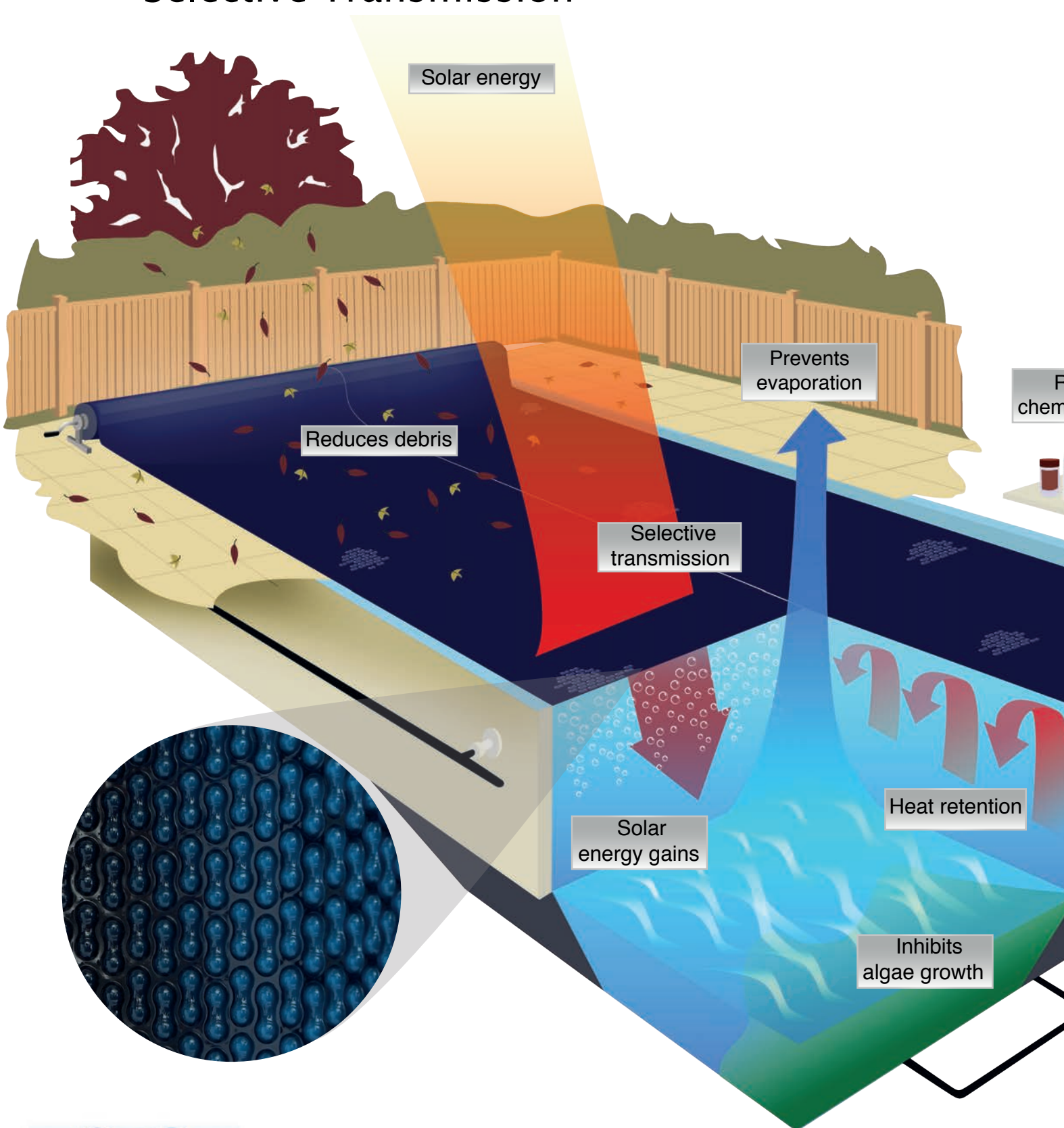


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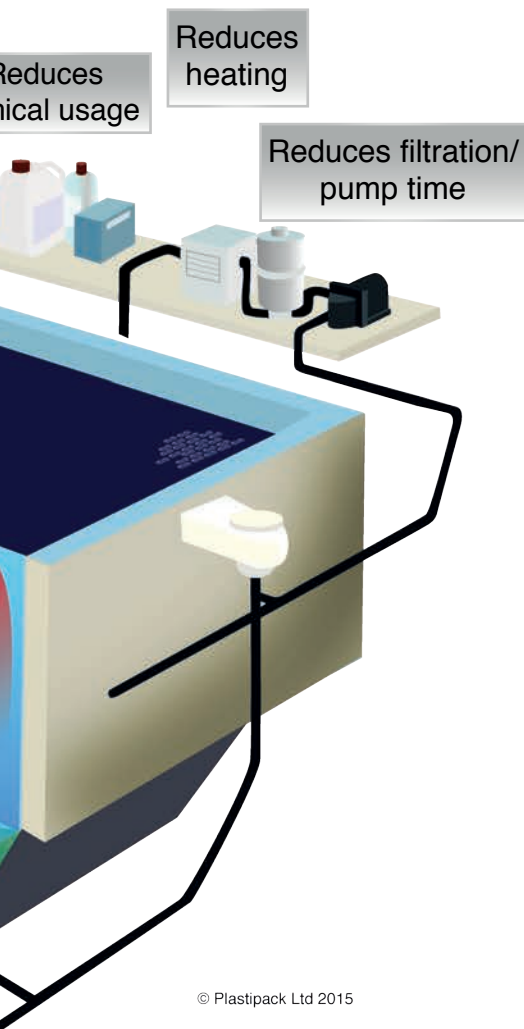


EnergyGuard™ specific benefits:

- ☞ **Increases water temperature by up to 7°C**
- ☞ **Algae growth is inhibited**
- ☞ **Reduces filtration times by up to 50%**
- ☞ **Reduces chemical consumption by up to 60%**
- ☞ **Reduces energy consumption by up to 60%**
- ☞ **Can be used as a winter cover**

General cover benefits:

- ☞ **Available with GeoBubble™ technology**
- ☞ **Eliminates water evaporation by 98% +**
- ☞ **Reduces debris contamination**
- ☞ **Saves money and shrinks your carbon footprint**
- ☞ **6 year pro rata manufacturer's warranty**



EnergyGuard™ selective transmission

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 performance and chemical savings.

Offering optimized solar gain and algae inhibition, the patent applied for EnergyGuard™ material now effectively delivers the best possible balance between solar heat gain, chemical and filtration reductions, making it the most innovative solar cover to date.

Selective transmission

The midnight blue bubble layer of the material is designed to absorb UV and visible light vital to photosynthesis, while allowing transmission of infrared wavelengths through the material to directly heat the body of water.

Increased solar gain

The material original selective transmission properties increase the pool temperatures in an efficient and sustainable manner. Tests in the UK have shown temperature increase of up to 5°C and this figure is believed to reach up to 7°C in hotter climates.

Chemical and filtration savings

The material's opacity in the visible wavelengths inhibits algae growth. Furthermore, the cover's ability to block UV light reduces chlorine deactivation due to photolysis. This results in chemical savings and reduced filtration requirements.

Evaporation prevention

By working as a physical barrier to evaporation the new EnergyGuard™ selective transmission material both preserves water resources and prevents evaporative cooling of the water.

Insulating properties

The air cells in the new EnergyGuard™ material provide buoyancy and insulation. The cover absorbs heat radiated by the water into the atmosphere.

Quality and longevity

The new EnergyGuard™ material uses the improved GeoBubble™ shape scientifically designed to prevent the premature degradation around bubble corners. Combined with the best additive package, the longevity is increased by 25%, resulting in a sustainable, 100% recyclable, energy-saving and cost-efficient product with a 6 year pro rata manufacturer's warranty.



Specification

Polyethylene blend	Dual-Extruded	
UV stabilization	180Klys/yr 140Klys/yr	
Pigment	Midnight Blue	
Expected lifespan	6 year expected lifespan and pro rata warranty	
500µm Thickness ± 10%	Back film: 150µm Bubble film: 350µm	
Roll dimensions	Diameter: 800mm	Length: 102m
Core diameter Ø	Internal: 76mm	External: 80mm
Stocked weld/salvage edge	Left: 30mm	Right: 30mm
Material dimensions	Bubble width	Overall width
2meter	2000mm	2060mm
2.5meter	2500mm	2560mm
Weight per m ² ± 10%	460g	
Bubble dimensions	GeoBubble™	15 x 30 x 5.5mm
Number of bubbles	1943 per m ²	
Thermal values	R: 0.06 m ² .K.W ⁻¹ K: 0.08 W.K ⁻¹ .m ⁻¹	U: 16.67 W.m ⁻² .K ⁻¹ <small>400µm material tested (ISO8302:1991 BS EN12667:2001)</small>
Vicat softening point	93°C	
Cold crack	<-25°C	
Packaging:	White polyethylene bag	
Product identification:	Internal: Quality assurance slip	
Estimated shipping quantities		
120m ³ truck	2m: 15,912m ² = 78 rolls	2.5m: 14,535m ² = 57 rolls
Container shipment	20ft: 4,692m ² = 23 rolls	40ft: 11,220m ² = 55 rolls

The latest innovation in
swimming pool cover material



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