



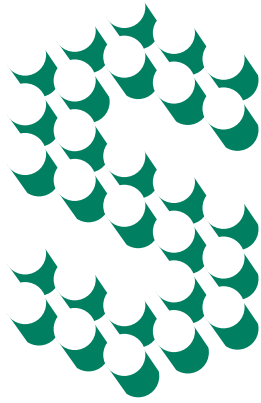
sancell™
special

sancell-*bio*™

Oxo-Biodegradable Bubble Film



Think Environment

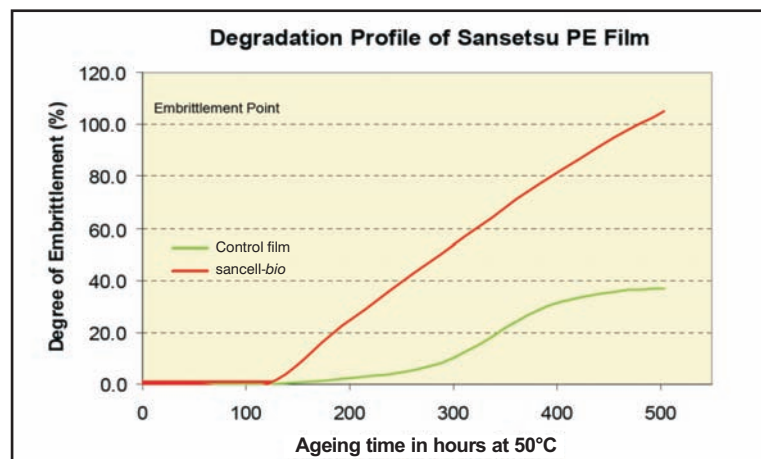


sancell-bio™

Clean, safe and now fully oxo-biodegradable, **sancell-bio™** is the most eco-friendly bubble film cushioning available in the UK.

Free from heavy metals and safe to be deposited in landfill, **sancell-bio™** will rapidly degrade leaving a cleaner environment for our future.

The table below shows how **sancell-bio™** outperforms normal bubble film in terms of oxo-biodegradability over time.



Incorporating a photo-initiating control, the breakdown process will not significantly commence before the product is discarded.

Once the breakdown process has been triggered, there is a built in 'dwell time' before embrittlement begins, meaning that **sancell-bio™** is fit for purpose in normal usage.

Think sancell-bio™ Think Environment

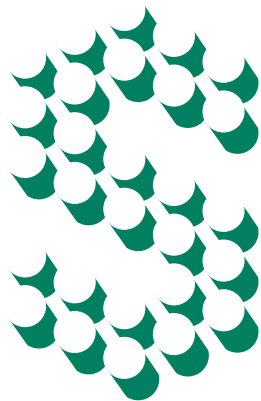
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sancel-bio™

Frequently Asked Questions

What is oxo-biodegradation of a plastic?

Oxo-biodegradation is a two-stage process in which, first the plastic is converted by reaction with oxygen to molecular fragments that are water wettable and second, these smaller oxidised molecules are biodegraded (converted into carbon dioxide, water and biomass by microorganisms).

Can **reverte™** additive based plastics be recycled?

Yes. Recycling in-plant materials (trimmings, scrap, etc) is entirely possible and is regularly practised by **reverte™** users globally. In addition, recycling post-consumer degradables is entirely possible if they are based on **reverte™** technology and provided they have not already started to significantly degrade.

What are the end products of degradation and how do they affect the environment?

'Polyethylene (PE) containing **reverte™** additives has been tested extensively to confirm that it contains nothing that could leave harmful or toxic residues after oxidation and oxo-biodegradation. The products of oxo-biodegradation include carbon dioxide (CO₂) water (H₂O) and biomass, which is the resultant of oxo-biodegradation. There is no long term accumulation of residual polymer or polymer fragments'.

What is the difference between **reverte™** technology and starch derived technology?

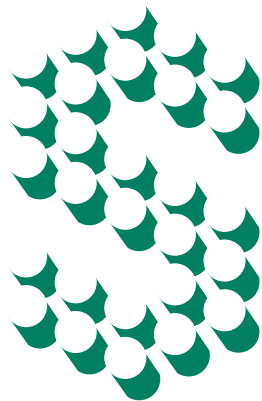
The production of biodegradable biopolymers from plant based starch such as PLA (polylactic acid) have been marketed as eco-friendly alternatives to polyethylene.

This sounds reasonable, however, currently many starch based biopolymers have the following drawbacks:

- There is substantially more use of fossil fuels needed to produce most starch based biopolymer materials than standard polymers such as PE.
- There is insufficient existing agricultural land available to grow enough starting raw materials in order to fulfill the potential marketplace for starch based biopolymers.
- The cost of these materials are much higher than those of commodity polymers such as polyethylene and therefore the consumer suffers.



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sancell-*bio*™

Complete Protection

Protecting your goods and protecting the earth

The introduction of the new **sancell-*bio***™ oxo-biodegradable bubble film range is set to revolutionise the way we think about the use and disposal of plastic cushioning products.

Utilising the oxo-biodegradable properties of **reverte**™ additive, **sancell-*bio***™ offers the following environmentally friendly benefits.



Reduces Landfill Volume



Reduces Plastic Pollution



Free From Toxic Heavy Metals



Non Toxic Residues



Designed To Controllably Degrade



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