

Marine resources as renewable materials for plastics

The UK produces over 160,000 tonnes of shell waste annually

Is there somewhere better this shell could end up than landfill?



Chitin cost per tonne = £10,100

This poster would need to be more than twice the size to fit the chart on!

But wait, what is chitin?

The second most abundant polymer found in nature.

A structural component found in the exoskeletons of crustaceans, insects and the cell wall of fungi

What can it be used for?

- Human tissue engineering
- Food packaging
- Pesticide
- Wastewater treatment
- Health supplement
- Bioplastic

How viable is chitin as a bioplastic?

Looking at this chart it does not appear that chitin is a viable raw material for plastics but, innovative, cost-effective extraction methods are still being explored.

PVC cost per tonne = £631.63

Landfill cost per tonne = £96.70

