

## How Sui Generis International reduced carbon emissions by 45% and are on track to divert over 1 million plastic bottles per year from landfill



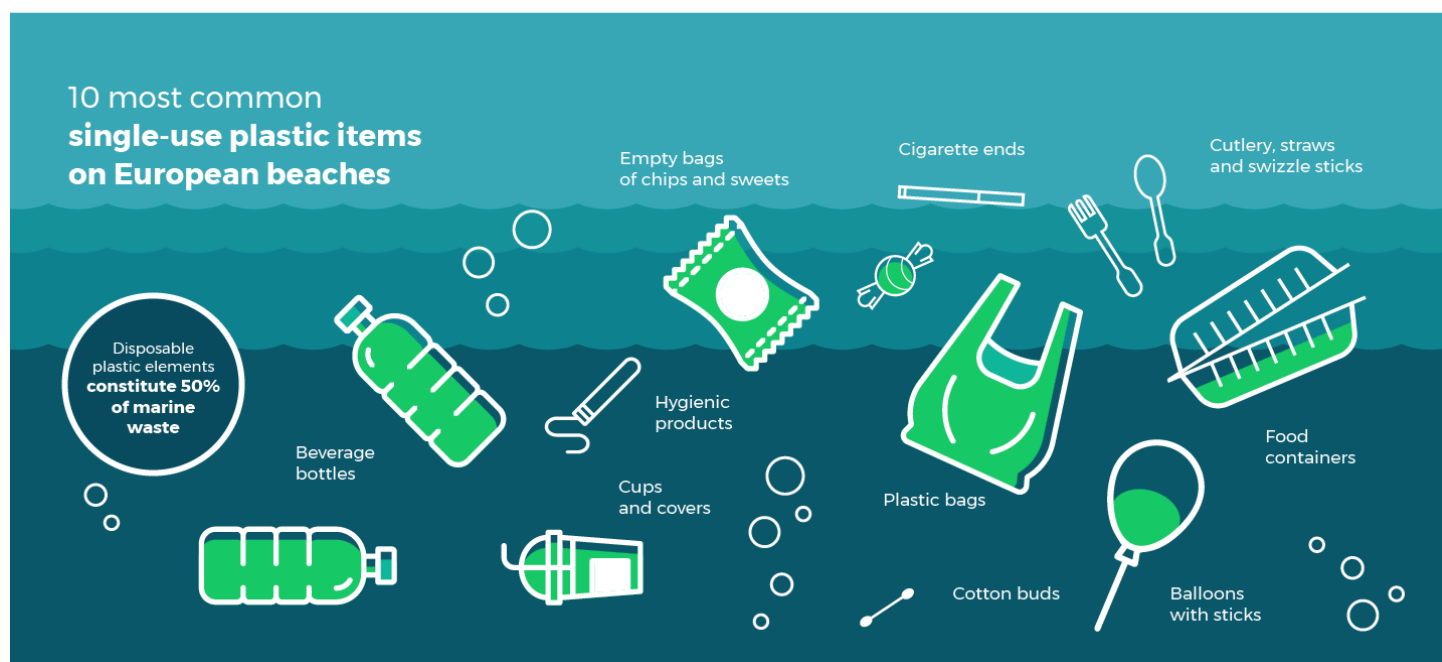
Sui Generis have been manufacturing fibre reinforced (fibreglass) products within the Composites industry for more than 25 years. From components for boats and bus shelters to bespoke modular furniture and anti-slip safety products, their diverse product range is utilised by businesses and consumers all over the world.

Much like all companies within the Group, they are mindful of their environmental and social responsibilities towards employees, their families, and the communities they serve. Acting sustainably for them means always considering the long-term consequences of the actions they take today and having a firm commitment to protecting and improving the environment.

As part of their evolving sustainability strategy, in 2021 they began looking for and undertaking opportunities to positively contribute to the communities they live and work in. A significant change introduced this year has been the adoption of low styrene resins made from recycled plastic bottles. Resin is the major component used in virtually all the products Sui Generis make, and this change has been instrumental in reducing their overall carbon emissions by 45%, reducing odor emissions, improving working conditions for employees, and diverting just over 1 million plastic bottles per year from landfill.



The key component within the new low-styrene resin is recycled polyethylene terephthalate, or RPET for short. PET is a strong, durable, and recyclable plastic material that is commonly used for fizzy drinks bottles, water bottles and food containers. Although extremely easy to recycle, many of these items end up in landfills and oceans every year due to poor recycling habits, with around 1.1 million tonnes of plastic being sent to landfill every year in the UK. The plastic content in rPET has been recycled, so the material is produced without exhausting natural resources. For every 220kg drum of resin used, Sui Generis are actively saving close to 1,800 plastic bottles from ending up in our ecosystem, where it is estimated that it can take up to 450 years for plastic to naturally biodegrade.



And the benefits don't stop with sustainability - tests have shown that the new RPET resin boasts superior strength and flexibility compared to the typical low and med/high reactivity resin used previously, along with higher heat deflection temperatures and improved hydrolysis resistance (how quickly a plastic will degrade in hot water and steam). This in turn results in a higher quality end product for customers, improved durability and longevity along with a wider range of applications.

Sui Generis understand that their work towards a more sustainable future will never be complete, which is why they are committed to continual research and development to ensure they're always progressing and heading in the right direction. They are currently prioritising employee engagement and are in the process of devising a net zero roadmap which will drive transparency and accountability in what they are doing as a business to preserve their communities, people, and planet.

To find out more about Sui Generis, visit [sui generis.co.uk](https://sui generis.co.uk).