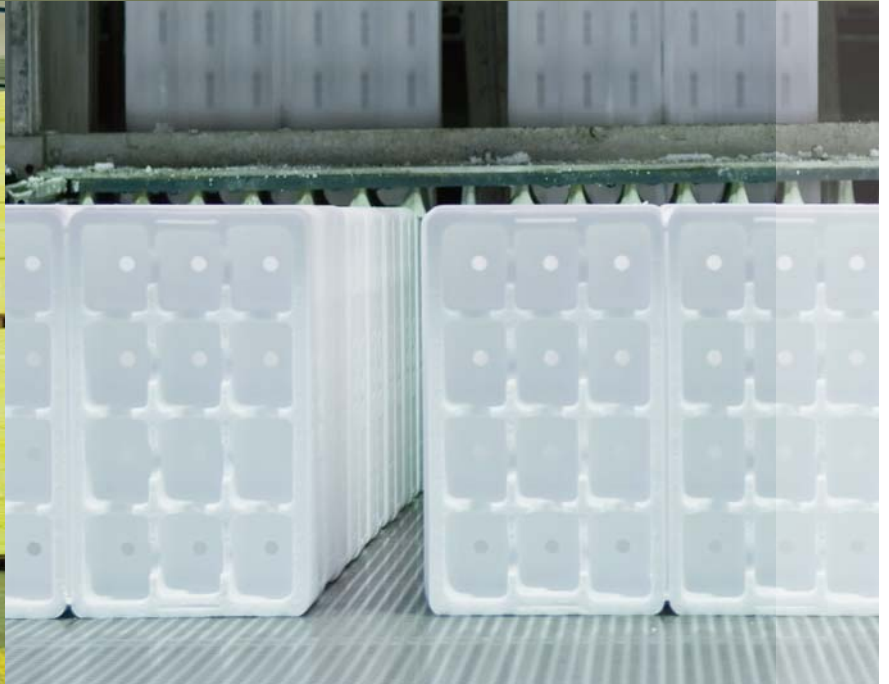




Innovative packaging
solutions

Styropack

A SYNBRA COMPANY



Styropack is the leading manufacturer of moulded protective packaging in the UK. Our design and technical expertise will guarantee you the most appropriate – the most cost effective – solution.

We will advise you on the best material to meet your exact requirements. As a Synbra company, we have access to a wide range of materials, including EPS (expanded polystyrene), EPP (expanded polypropylene) and newly developed variants of these including HT, Arcel, Shock, coloured EPS and Biofoams.

Styropack packaging is currently protecting and enhancing products in a wide range of sectors, including heating, air conditioning and ventilation equipment, vaccines, pharmaceuticals, fresh fish, horticulture, frozen food and home delivery.



Styropack has been an accomplished designer and manufacturer of moulded EPS products since 1965.

Our skilled and adaptable workforce, not only produces protective packaging, but also a wide range of other products, including safety helmets, air conditioning units, child car seats and components for the automotive and heating sectors.

We have production plants strategically located across the UK, ensuring that we can deliver to you, when and where suits you best.



Innovation and Experience

Styropack's experienced design team has successfully collaborated with many customers to develop innovative packaging solutions and new products.

Equipped with the latest Computer Aided Design (CAD) software and Computer Numerically Controlled (CNC) cutting equipment, our designers can produce, test and alter designs with total accuracy until you are completely satisfied with the prototype and the production tool can be ordered.

Our experience in moulding a range of materials, at different densities, to create the required strength and durability is second to none. And, we can advise you on printing, labelling and any other auxiliary elements that you require.

This unique combination of innovation and experience guarantees our customers the highest standards of product design and manufacturing expertise.



Selecting the right material

Selecting the material that will best serve your packaging or product is a key part of the development process.



EPS is lightweight, durable and versatile. It can be moulded into any shape.

The outstanding shock absorbency and compression resistance of EPS provide protective packaging for high value items.

Safety helmets and child car seats are moulded from EPS.

EPS is used for technical applications in the automotive sector.

The thermal insulating properties of EPS make it a unique packaging material that is used to keep food and pharmaceutical products at safe temperatures.

What is EPS?

Expanded polystyrene is a rigid cellular plastic; it has closed-cell foam structure, consisting of microscopically small air bubbles. It is 98% air, making it incredibly lightweight and one of the simplest, insulating packaging materials available. (EPS has an average thermal insulation rate of 0.037W (m.k.) at 15g/density.)



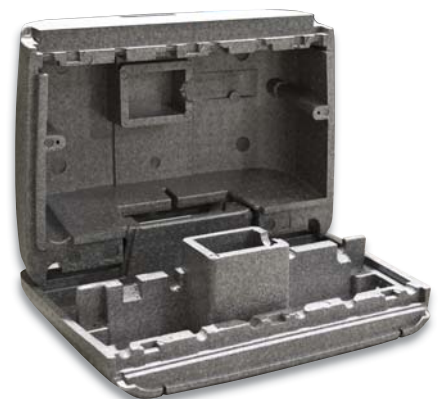
Synbra Technology has developed some innovative variants of EPS that have specific characteristics:

- Shock® EPS offers similar attributes to EPP or Arcel, it is stronger than EPS and can be used for products that have a longer life or that need to be re-used.
- HT or High Temperature EPS; is a new form of EPS that is resistant to high temperatures. It can be used for steam sterilised horticulture trays and as insulation for boilers and hot water tanks.
- Coloured EPS, Styropack can mould EPS in a range of colours.

Instead of EPS

Arcel is an advanced foam resin, consisting of polystyrene and polyethylene; it provides toughness, flexibility and durability. Arcel is considered when a longer lasting solution is required.

EPP, (expanded polypropylene), an engineered foam, is available in a range of vibrant colours. Its inherent strength and durability means it can be used for returnable packaging and is even used to make furniture, bookshelves and other life long items.





Your Packaging Solution:

Off the shelf

Our standard 'off the shelf' range, has been designed to meet our customers needs. We are continually developing our product list to ensure that we stay up-to-date and provide packaging that suits the changing requirements of the marketplace.

All of our ready made boxes can be bought in small or large quantities and can be embossed, printed or labelled.



Bespoke

A bespoke product is designed for you, to provide a unique packaging solution for your products.

The first step is to understand your product and the journey it has to take. Next, we produce a prototype pack that we test rigorously and alter as required, until you are completely satisfied.

Then, the production tool is ordered and once it is delivered, manufacturing can commence.

The entire process usually takes between six and eight weeks. The end result is a tailored package that will provide the ultimate protection for your goods.

Biofoam®

Biofoam® is an entirely new sustainable and biologically degradable polymer made from PLA a renewable resource. It has been developed by Sulzar Chemtech and Purac Biochem and Synbra Technology.

PLA is derived from in the production of sugar cane, which is refined to sugar, then fermented to lactic acid, from which lactide is made. This lactide is finally polymerised to PLA.

The physical properties of BioFoam® are very similar to EPS, in particular the excellent thermal insulation, and it is resistant to liquid nitrogen and dry ice, making BioFoam® a good candidate for use in the cooled transport chain.

The Dutch rubber and plastics federation (NRK) has awarded this development with the gold sustainability medal for the most innovative and daring project for 2009 in the Dutch plastics industry.



Caring for the Environment

Styropack is committed to ensuring that our manufacturing processes have a minimum impact on the environment. We are continually assessing our methods and looking for new ways to improve our environmental performance.

Our design methods ensure that the minimum amount of material is used to create your packaging solution.



The manufacture of EPS packaging is a low-pollution process. Steam is used and the water is re-used many times.

Styropack has invested in some of the world's most advanced, energy-efficient machines.

No material is wasted in the manufacturing of packaging, all rejects or off-cuts are shredded and re-used.

EPS and the Environment

EPS is 98% air

EPS is a uniquely resource efficient material; its closed cell structure captures air to create an incredibly lightweight, protective, insulating packaging material with a low carbon footprint.

This benefits the environment in several ways. The lightweight nature of EPS helps to reduce fuel consumption in the supply chain and, the ability to protect and insulate goods and food, helps to cut the waste of returned goods and spoiled fresh food.

EPS is 100% recyclable

Thousands of tonnes of EPS are recycled every year in the UK. From clean computer packaging to used fish boxes – businesses are working hard to set up viable recycling schemes that enable EPS to be recycled into other useful products.

EPS can be recycled into items such as coat hangers, garden furniture, disposable cameras and picture frames.

Sustainable Buildings

EPS insulation is effective for the lifetime of a building. The energy consumed in the production of the EPS, is recovered many times by the energy saved during the use of the building. This calculation is known as the embodied energy.



EPS is inert

This not only makes it a safe packaging for food, it also means that it does not break down and leach dangerous chemical or gases into the environment.

The inert nature of EPS makes it a good material for landfill sites where it provides vital stability for sites that will eventually be reclaimed and turned into public amenity areas like parks and golf courses.

No CFC's or HCFC's

No CFC's or HCFC's are used in the manufacture of EPS.

Embodied Energy

The latest building regulations require this 'embodied energy' to be considered when evaluating environmental performance. The total energy used to extract, process, manufacture, deliver and deconstruct the material over the life cycle of the product is analysed. Using this cradle-to-grave method, EPS performs better than many commonly used insulation materials such as stone wool, glass wool, XPS and wood fibre.



Packaging, Protection, Innovation

Our skilled and adaptable workforce are dedicated to manufacturing to the highest standard.

We have four production plants, strategically located nationwide and our 150 machines of varying sizes and capabilities ensure that we deliver packaging – or other products – to you when and where you want it.

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As a Synbra company, Styropack has a close working relationship with one of Europe's top suppliers of EPS packaging, insulation and plastics and with other Synbra companies located in the UK, France, the Netherlands, Denmark, Germany and Portugal.

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