



THE REVOLUTIONARY BIOPLASTIC SOLUTION





ZealaFoam[®]
SUSTAINABLE BIO-PERFORMANCE

The growing global demand for "bio-based plastics" inspired BPN to develop ZealaFoam[®] as a sustainably sourced alternative to petroleum-based foam such as polystyrene.



ZealaFoam[®], The Sustainable Bio-Alternative to Polystyrene.

ZealaFoam[®] can potentially be substituted for almost any moulded polystyrene product.

This means manufacturers can mould ZealaFoam[®] on existing EPS moulding equipment without the costly exercise of buying new moulding machines and re-tooling. We are happy to work with manufacturers to embed ZealaFoam[®] in the factory.

ZealaFoam[®] tests have returned performance data comparable to polystyrene for both impact resistance and insulation properties.

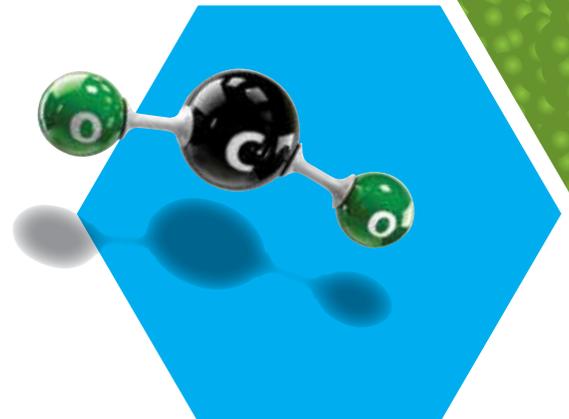
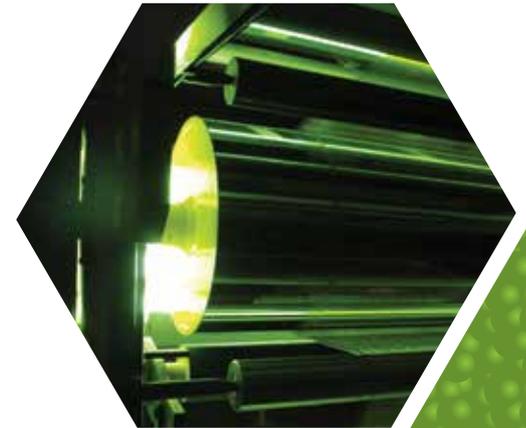
Bioplastics are a form of plastic derived from renewable biomass sources, such as vegetable fats and oils, corn starch, pea starch or microbiota.

ZealaFoam® is an expanded polylactic acid foam (E-PLA). It is an excellent material offering excellent impact resistance and insulation properties suitable for a broad range of existing commercial and commodity-focused products.

We manufacture this versatile product from commercially available PLA beads which are plant-derived.

We impregnate the beads with CO₂, a green blowing agent, using our revolutionary patented technology and ZealaFoam® can be safely disposed of by industrial composting or burning.

New Zealand's rich heritage of quality biologically based raw materials and bio-manufacturing innovation provides it with a special opportunity to secure a significant role in the global trend of creating high performance products from bio-based materials.



A broad range of applications for ZealaFoam® include:

- Packaging
- Furniture
- Thermal insulation
- Composite/structural insulation
- Biomedical
- Automotive
- Sporting goods

BPN has developed, and continues to develop, its portfolio of intellectual property in biopolymers, bio-based specialty chemicals, bio-composites, bio-foams and moulded structures.

With our key partners we are actively taking these products into the market place.





BPN's research base is built from three of New Zealand's largest and leading research organisations, AgResearch, Plant and Food Research and Scion.

This provides us with world-leading scientific expertise and the largest focused research effort in this area in New Zealand.



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Leading the way to a sustainable bio-based world