Every once in awhile, a new technology, an old problem, and a big idea turn into an innovation.

Dean Kamen
There is clear international demand for plant-based materials to substitute for those derived from petro-chemicals. New Zealand’s rich heritage of quality biologically based raw materials and bio-manufacturing innovation enables BPN to create high performance products from bio-based materials for the global market.

BPN has, through original research, developed a number of products and continues to develop more in biopolymers, bio-based specialty chemicals, bio-composites, bio-foams and moulded structures. We also have expertise in Liquid CO₂ processing over a range of applications.
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Our New Zealand based company was formed in 2005 born of a desire by its shareholders to exploit specific niche areas of bio-research to create new bio-based chemicals, biopolymers and applications.

In keeping with today’s style of doing business we are a small but agile company able to draw upon the skills of a large pool of talented research scientists sub-contracted from our shareholders Scion, AgResearch and Plant & Food Research.
We source environmentally responsible alternatives from sustainably sourced plant-derived material using natural extraction processes with scientifically proven functionality.

Commecially Inspired

Utilising NZ’s resources BPN’s research has been focused on meeting the growing global consumer demand for green sustainable products.

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**Packaging**
- ZealaFoam®
- EcoBeans for Loose Fill
- ZealaFoam® Lightweight Printable Film

**Home & Leisure**
- Toys
- Helmets
- Bee Boxes
- Single Use Picnicware
- EcoBeans for Bean Bags
- Harakeke Decorative Tiles

**Natural Wellbeing**
- UV protection
- Anti-microbial
- Anti-oxidant
- Anti-inflammatory
- Anti-protease
- Moisture retention
- Skin whitening / reduction in melanin

**Industrial Innovations**
- Liquid CO₂ Processing
- Bio-based Composites
- Tannin Additives for Plastics, Foams and Coatings
ZealaFoam® has developed a second generation of bio-based foam products. These incorporate biomass which can alter cost, appearance and functionality. BPN has worked with a number of available waste streams including pine bark, proteins from a number of plant sources and plant fibres. Excellent moulded products have been produced with a range of colours and textures.

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. ZealaFoam® can be safely disposed of by industrial composting or burning.

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Good news for manufacturers

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.
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