BPN

Sustainable Bio-Based Technologies

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

Dean Kamen

Groundbreaking Technologies

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 CO_2 processing over a range of applications.

Scientifically Proven

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.

Commercially Inspired

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

We source environmentally responsible alternatives from sustainably sourced plant-derived material using natural extraction processes with scientifically proven functionality.

Packaging

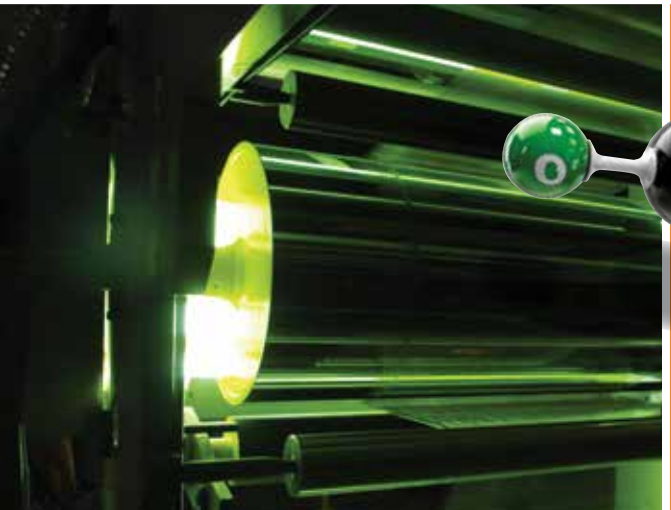
ZealaFoam®
EcoBeans for Loose Fill
ZealaFoam® Lightweight Printable Film

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 CO_2 Processing
Bio-based Composites
Tannin Additives for Plastics, Foams and Coatings

ZealaFoam®

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 CO_2, a green blowing agent, using our revolutionary patented technology. ZealaFoam® can be safely disposed of by industrial composting or burning.

BPN 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.

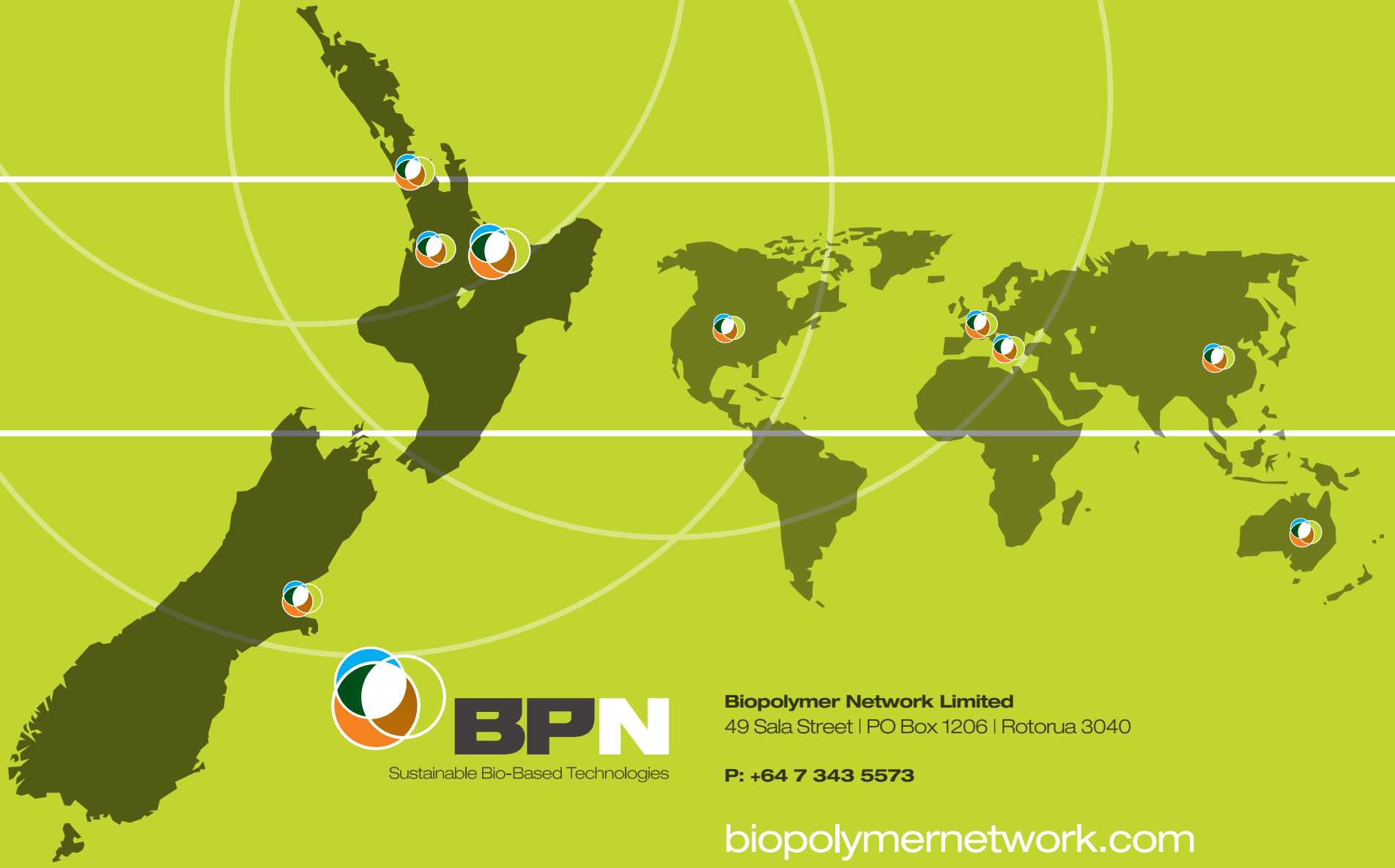
BIO-SUSTAINABLE RESOURCES
ZealaFoam®
SUSTAINABLE BIO-PERFORMANCE
MADE IN NEW ZEALAND

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.

ZealaFoam®
SUSTAINABLE BIO-PERFORMANCE

ECOBEANS
Big Balls For Bean Bags



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