

Developing a bio-
degradable solution
for forestry.

—
Made robustly, not to last
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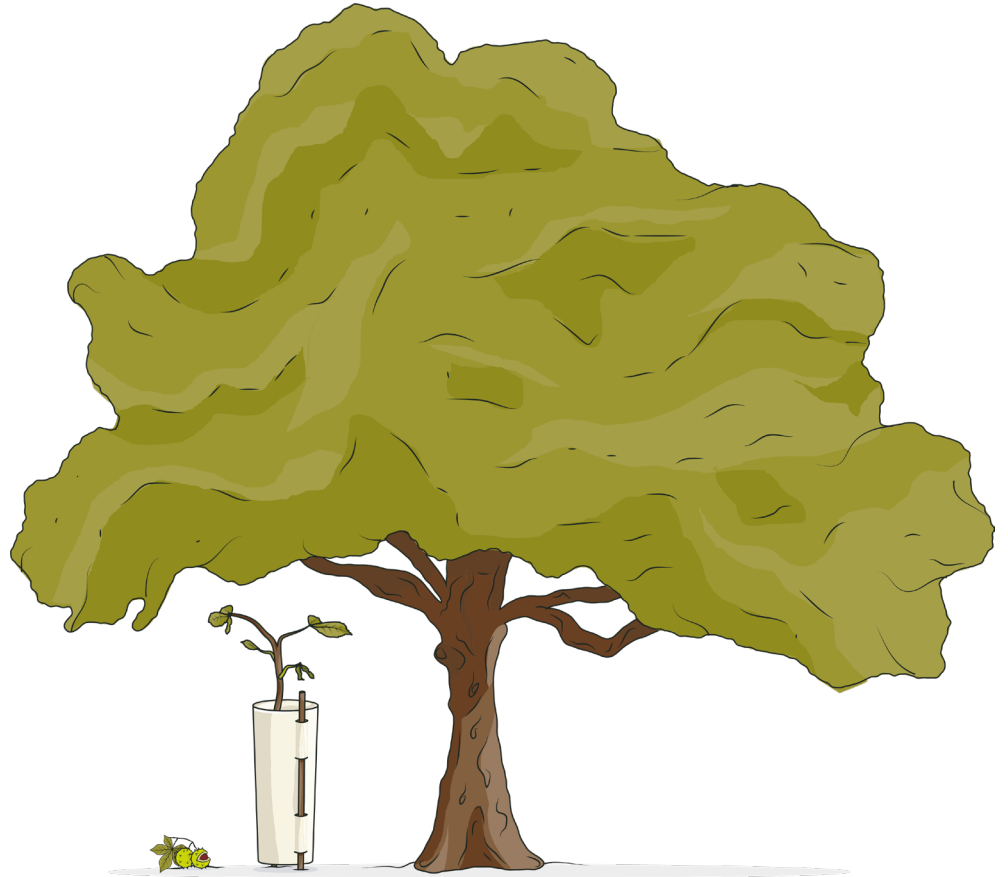
Ian Brown



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What We Do.

We Formulate effective, viable, non-toxic, non polluting, bio-degradable replacements for incumbent fossil based plastic products.



Made robustly, not to last

- A unique new patented material
- A blend of bio-polymers and natural additives that deliver viable, commercial product solutions
- Bio-degrades to microbial biomass, water and carbon dioxide
- Time-initiated bio-degradation, appropriate to product life-cycle requirements.
- Replaces fossil-based plastics
- Replaces PLA-based plastics

Intellectual Property Knowhow.

OUR PATENT PUBLISHED BIO-POLYMER BLEND

Sugar-based.

Refined sugar is:-

- abundant
- renewable
- globally accessible
- **the primary feedstock in Chestnut Bio**

Our Bio-polymers are:-

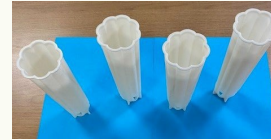
- Sustainable
- Scalable
- Annually renewable
- **manufactured using commercially viable biotechnology and polymer chemistry processes**



PROVEN USE-CASES

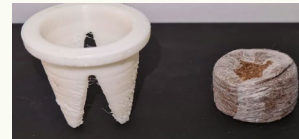


Sheet extrusion 2mm-70 micron
Bagging and vacuum/Thermo Forming



Injection Moulding.

Cable Tie, Plant Pots, Primary and Secondary Packaging



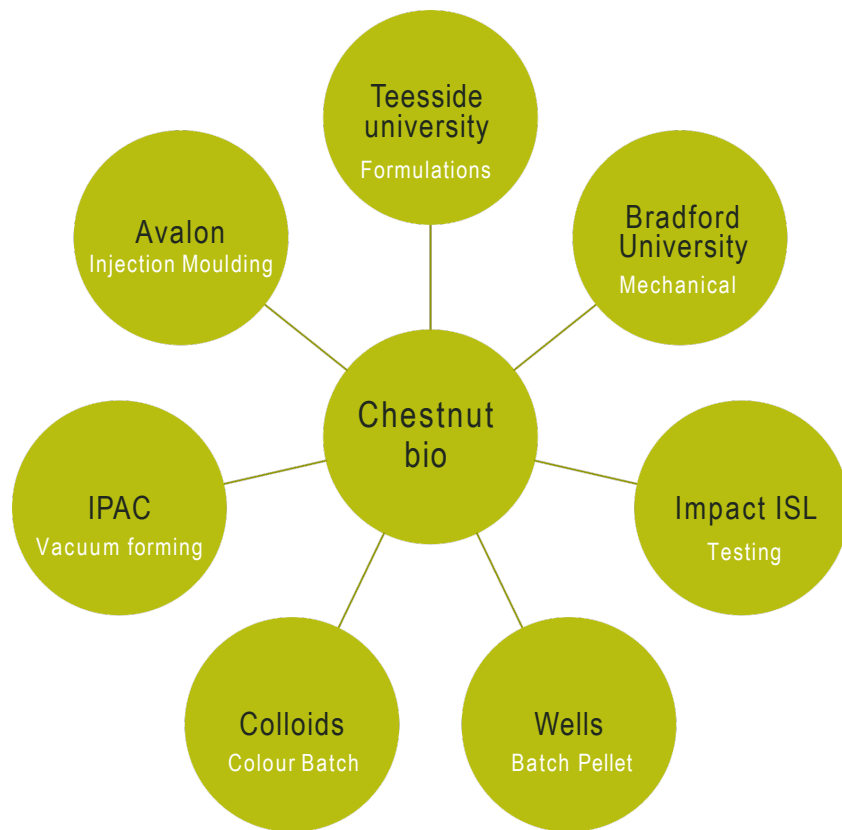
3D printer filament.

Value Chain Partners.

Following the publishing of the patent for Chestnut Bio, and the completion of the product R&D programmes with CPI, Chestnut Bio has built a set of partnerships to support wider market engagement with the material.

These partners have been carefully selected to enable a smooth pathway to scaled engagement across the plastics sector.

Each Partner has a primary delivery role within the plan to facilitate a pathway of growth reducing the need for capital spend until the Bio-Market volumes support capital expenditure.



Working with Avalon Plastics, Chestnut Bio will produce a bio-degradable pin cover for the electrical manufacturing sector.

Products

1	13 PP 01	13amp Plug Pin Cover
2	TBC	USA Plug Pin Cover
3	TBC	Euro Plug Pin Cover

Example specification for UK plug – 13PP0

- Product – UK plug 3 pin protector
- Dimensions – 31mm x 31mm x 24mm
- Material – ChestnutBio, CB-IMCBI/CT
- Weight – 1g each



For illustration purposes only



3 moulds will be produced to allow for the production of covers for the US, European and UK plug types in the market.

The cover will be certified bio-degradable and can also be home compostable.

Investment in tooling requires a minimum total order of 1 million units across the 3 product types.

The minimum delivery quantity per order is 100,000 units

The price per unit £0.058

**Prices do not include delivery and VAT*

The R&D Partners.

Chestnut Bio is leading a journey of discovery in Plant Based Bio-Polymer materials and their applications in the natural world.

We are proud to work with some of the leading research organisations in the field to design, develop, test and ultimately bring to market solutions that make the world a more sustainable place for future generations.



Get in touch.

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