

## Intelligent plastics in action: Tree support

Natural Plastics are using their patented product Cradonyl<sup>®</sup>, a biopolymer based on Biome's bioplastic, in a revolutionary support system for saplings. Natural Plastics' Keeper system uses an underground set of bioplastic anchors and ropes, replacing the need for a wooden support stake.

Thousands of stake-less trees have already been planted across Holland, Denmark, Germany, France and Norway using Natural Plastics' innovative system.



### Better for the environment

**Prevents felling of existing trees:** Currently mature trees are felled to provide stakes for new saplings.

**Lower CO<sub>2</sub> emissions:** Stakes are often shipped a long distance to where trees are planted.

**No waste:** The fully biodegradable components begin to break down after 5 years when the maturing trees no longer need their support.



### Better for business

**No follow-up maintenance:** The system doesn't need adjusting or removing as the tree matures.

**Cost savings:** Lack of aftercare removes on-going maintenance costs.

**Less effort:** Carrying and driving wooden stakes is heavy labour; installing this system is simple and light work.



### Better for the trees

**Added nutrient source:** As the biopolymers break down they release nutrients into the soil.

**Stronger trees:** Not being reliant on a physical stake helps roots to grow stronger. Trees also remain upright as they are not attached to stakes that are prone to leaning.

## Biome Bioplastic Polymers

The Keeper system developed by Natural Plastics uses Cradonyl<sup>®</sup>, a renewable material based on Biome Bioplastics' Bioplast GS2189 bio-resin.

Biome Bioplast GS2189 is a corn-based resin that offers a natural replacement for conventional polymers such as PP, HDPE, and ABS. This plasticiser-free resin produces naturally opaque, strong and rigid plastics.

Biome Bioplast GS2189 is 100% biodegradable and compostable according to EN 13432, ASTM D6400 and Vinçotte OK compost.

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"We chose to work with Biome Bioplastics not only because of the eco-credentials of their polymers, but because they offer a high quality, consistent product. They worked alongside us to develop this system, providing an excellent, professional service."

Ruud Halbersma, Managing Director,  
Natural Plastics