

COMPOSTABLE STARTER CUBE

POLYDIME



PLASTICS

Introduction

The horticulture industry is said to be one of the fastest growing industries globally. As long as there would be mouths to feed, there would be plants to grow, crop to harvest and product to go into the market. The beginning of the value chain for growing begins with the seedling taking shape in a nursery. Once the plant takes shape and the roots get stronger and healthier the plant is transferred to a heavier, nutritional growing medium structure for the tree to grow and subsequent fruit to blossom out effectively.



POLYDIME has been a synonymous name in the plastics industry since 1998 present in 4 key business area covering Agriculture, Plastic Film/Bag, Multilayer Packaging and Bioplastic products. Over the years there has been expansion to 7 factories in 3 countries, employing a staff of over 800.

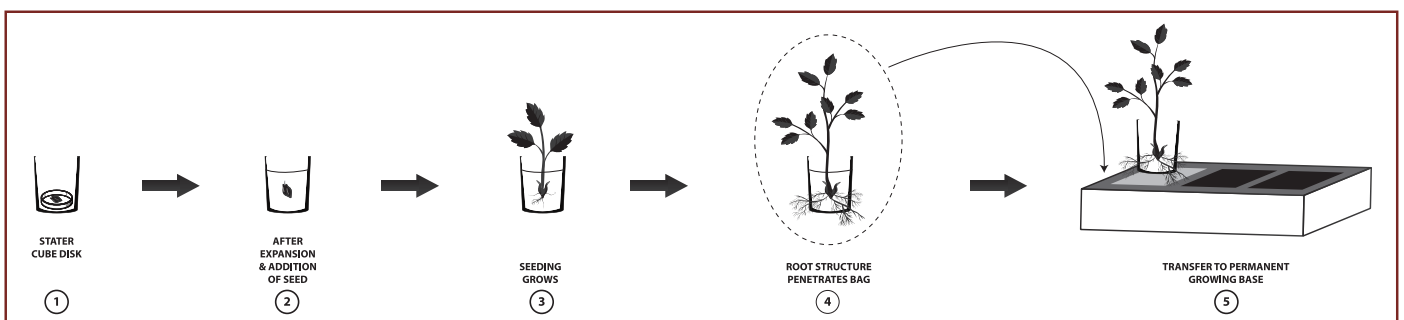
Product

The concept is a Biobased container with low gauge that would hold a minor amount of peat or other growing medium where the seed would be added. Once the seedling takes root, the root structure penetrates the biobased structure, it is transferred to the main Grow Bag, Mulch pathway, Pot, Open top bag or any other Growing Base where the Plant would have a permanent resting place to blossom. The bag is made out of a structure containing certified compostable compounds and will degrade automatically in the peat or growing medium.



EcoSprout®

Process



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What is Bioplastics?

An alternative to Regular plastic products that fulfils most of the properties. The main advantage being instead of hanging around in the environment for over 100 years, Bioplastic breaks down and Composts in the growing medium that it has been placed in since within a period of 3 to 6 months. This is based on international laboratory certifications that are available on request.

Advantages

1. Compostable – Means the biobased plastic structure would degrade significantly with microbe interaction and degrade into the soil. It would then form a kind of compost that would add nutrition to the soil and support the plants growth.
2. Non-Toxic, Zero Microplastic content – There is no fear of toxicity to the plant and zero microplastic content.
3. No stubborn residue to clean up later as 100% biodegradable in soil / peat.
4. Compost may help enhance growing strength.
5. No transplant shock. Hence health of plant and roots maintained.

Specification

- Size – Can be made to any size based on purchase volumes.
- Thickness & material mix engineered to support root structure effectively.
- PLA and PBAT based
- Certified compostable
- 6 months shelf life from production date.

Certification

- Manufactured with certified raw material that is compostable based on scientific tests run up to EN 13432:2000 - 12 and ASTM 6400.
- Raw material used are approved by special certification from Dincertco - Germany.



Compostable

IN HOUSE COMPOSTABILITY TRIALS DONE AT POLYDIME IN HOME INNOVATION

Week 01



Plant starts growing.

Week 04



Plant takes roots →
transferred to grow bag.

Week 06



Bag starts to break down.

Week 08



Bio degradation of plastic
begins.

Based on scientific studies product will compost within a period of 3 - 6 months maximum.

Marketing

Your Commitment to the use of sustainable plastic will be highlighted on our web site. Use the following logo on bag.

EcoSprout®

Product Patent

Ecosprout, due to its high investment in production technology is patented product sold under strict trademark. As such an NDA needs to be signed up with any customer that would be willing to work with us.