

Tipack –

Nature will not even notice we were here...

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TIPA has developed Biodegradable flexible packaging materials for food and beverage. The materials decompose biologically and go back to nature within 6 months as opposed to regular plastic bottles that degrade in approximately 70 years.

Our patent pending compounds offer a unique set of characteristics that clearly sets TIPA's solutions apart from others, allowing for a wide variety of packaging applications, while maintaining compatibility with existing production processes using existing industrial production lines so there is no need for new machinery.

TIPA's Products

TIPA has developed revolutionary patent pending biodegradable blends for production of packaging solutions for liquids and food. These unique packaging solutions degrade in up to 180 days in industrial compost – compared to regular common plastic packages that degrade in up to 70 years. At the end-of-use, TIPA's materials decompose biologically or alternatively can be recycled for reuse.

Tipa's compound chemical and physical characteristics have passed both the European (EN and ISO standards) and Israeli regulation institutions tests for food (migration) and biodegradation.



Innovative materials and applications

TIPA's 100% biodegradable multi-layered films incorporate high flexibility and durability, high resistance to oxygen and water vapor permeation and transparency.

The materials can be used in a variety of processes such as casting or blowing (into a film), blow-molding (into a bottle), injection (for spouts etc), vacuum forming and more.

TIPA's flexible pouches are cost competitive, as production processes are optimized for using less raw materials and less heat-energy consumption. Cost effectiveness is further attained due to the reduction of waste management penalties imposed otherwise on regular plastic applications.

Team and company background

The company was founded in April 2010 and bootstrapped with angel funding. In 2011 Tipa received a grant from the Israeli Chief Scientist office.

The leading team:

Daphna Nissenbaum, Co-Founder & CEO

Tal Neuman, Co-Founder & VP Product development

Dr. Anna Dotan, CTO, Expert in biodegradable polymers, a senior Researcher at the Israel Plastics and Rubber Center.

Dr. Yohanan Aravot, Specializing in packaging

solutions, experienced in beverage package development.

Channan Anderman, Leading plastic engineering and industrialization expert.

Market Opportunity

Rising concerns over environmental hazards, eco-friendly packaging, carbon emissions, waste reduction targets specified by different countries and the trend towards 'green packaging', are the factors boosting the market for sustainable and green packaging solutions.

“The global biodegradable polymer market is expected to have its largest growth over the next 5 years, dominated by packaging and usage in fibers. The global biodegradable polymer market is estimated at 932 million pounds in 2011 and is expected to increase at a 22.5% compound annual growth rate (CAGR) to reach nearly 2.6 billion pounds in 2016.”

BCC Research

The potential for TIPA's packaging solutions is wide and spans across several target markets. In the first stage TIPA concentrates on solutions to the non-carbonated soft drinks and other liquids market – a huge market with high plastic usage. The soft drinks packaging market worldwide was estimated in 2009 at 1.6 billion USD, with 57.5% of that total comprising the non-carbonated beverages segment. (Source: DataMonitor). Additional applications span across food, cosmetics, and other verticals representing huge market opportunity

“The global biodegradable plastic packaging market will reach \$1.85 billion in 2011”

Visiorgain Market Research

Achievements

TIPA has finalized a significant R&D milestone where the major breakthrough achievements are the new 100% biodegradable blends designed to contain food and beverages.

Key milestones achieved includes:

- Four bio-degradable blends for films, closures/straws and bottles.
- Mechanical and chemical properties according to the EN and ISO standards
- Testing the material production on semi-industrial machinery
- Approved color printing process
- Proof of concept & mockups
- Food Approval according to EU 10/2011

Regulation

- Bio-degradation tests according to EN 13432, ISO 17088

Registered IP:

- Patent pending on compounds and blends
- Patent pending on unique multi pack
- Design patent pending on unique stand-up pouch

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