BioBoost
Accelerating biobased horticulture

Bioplastic of potato starch



Crop	Potato *Solanum tuberosum*
Croppart	Roots / Tubers
Application area	Materials
Status	Commercial stage
Relevant plant compounds	Starch

Description

In 2000 Rodenburg started experimenting with bioplastics, based on potato waste streams, using high tech technology and innovation, focussing on the second-generation feedstock. At that time they still were a bit ahead of their time as the bioplastic market still needed to mature. Nevertheless Rodenburg kept investing in highly innovative extrusion production processes, optimisation and extensive R&D. And now, that the market is ready, the investments start to pay off. Rodenburg is at the front of biobased technology, experts in biobased biodegradable compound development and production.

Rodenburg Biopolymers is based in Oosterhout, The Netherlands. Close to the ports of Antwerp and Rotterdam, making the location perfect for maritime transport and very convenient at the so called gateway to Europe. The current site setup includes extended laboratory facilities, high-tech equipment for tests in various product categories, and has an annual extrusion capacity over 60.000MT. The site setup ensures flexibility and scalability, to provide excellent customer service and high quality performance. Rodenburg Biopolymers compounds can be converted with most common manufacturing processes.

Rodenburg Biopolymers is ISO 9001:2015 certified; ISO 9001:2000 since 2004. ISO 9001 is the most comprehensive level of certification, accepted by 90 countries around the world. It provides third-party assurance that Rodenburg has the quality management to ensure all product and service components, which they author are consistently of the highest quality.

Examples of end products



Solanyl

Solanyl® is a group of products consisting of a smart series of biobased and biodegradable end compounds, suitable for direct conversion by the various known techniques. The name Solanyl is derived from the Latin words Solanum Tuberosum, which means potato. Solanyl® is based on reclaimed side stream starch from the potato processing industry and/or grain, root or seed flour based resources. The Solanyl® portfolio is special tailored for various converting methods and is a renewable alternative for various petroleum-based plastic applications, e.g. PS, PP, PE and PVC. The compounds can be used directly for the production of bioplastic products with most common converting methods with respect to injection molding, sheet and profile extrusion, thermoforming and extrusion film casting or blowing products and processes. Solanyl® products have a "natural" look and feel. The current commercial grades of the Solanyl family are offered as follows: •Solanyl C1xxx: Injection & compression molding •Solanyl C2xxx: Sheet and profile extrusion •Solanyl C8xxx: Blown and cast film extrusion



Flourplast

FlourPlast is a modular, pre-compound building block system. Convert these ready-made granulates into thermoplastic compounds and increase the natural carbon or biobased

Resources

http://biopolymers.nl/biopolymer/#solanyl Initiative website