

PROGANIC GMBH & CO. KG

Foundation

- 2010

Branches

- PHA, PLA, plant wax and minerals based biopolymers for household cleaning equipment, gardening products, food packaging, containers, toys, water filtration systems and component parts...

Trademark

- PROGANIC® is a registered trademark of Proganic GmbH & Co. KG

General description

- PROGANIC® is a biopolymer – which is fully biodegradable

Key components

- PHA, PLA, plant wax and minerals

Key bio-based products

- Biodegradable plastic products for the daily use



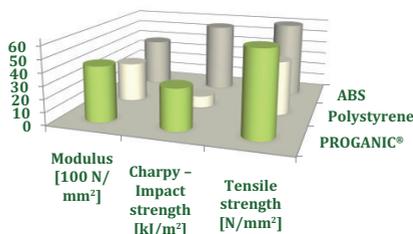
Material

PROGANIC® is made from 100% renewable raw materials and minerals. It is just as durable as plastic but is organic and can be reintroduced into the earth's natural cycle by composting. Choose PROGANIC® wherever you see the PROGANIC® seal of approval for a responsible attitude towards your earth and the environment.

Composition

- PHA (Polyhydroxyalkanoates) – We use the biopolymer PHA, which is made by bacteria. PHA has the same qualities of plastic, but it uses renewable raw materials such as sugar from crops, instead of finite natural resources such as crude oil, natural gas and charcoal.
- PLA (Polylactic acid) – PLA is also produced from renewable raw materials such as sugar from crops.
- PLANT WAX – We use the hardest known natural wax derived from the Carnuba palm leaves. It is harmless to health and fragrance free.
- MINERAL – We use a natural mineral as filler (bulking agent), which has water repellent and sealing properties.
- COLORS – We supply an-organic color pigments to all PROGANIC® customers.

PROGANIC® in comparison to commonly used plastics



PROGANIC® has the same hardwearing and versatile characteristics as conventional plastics. It is an ideal substitute for commonly used plastics. PROGANIC® can be used for all types of consumer articles predestined to come in contact with food and beverages. It is suitable for all types of articles for daily use such as flowerpots, watering cans, containers, trays, as well as for all disposables and food packaging.

Award In 2010 PROGANIC® was awarded the bio material of the year 2010 by the renowned nova-Institute.



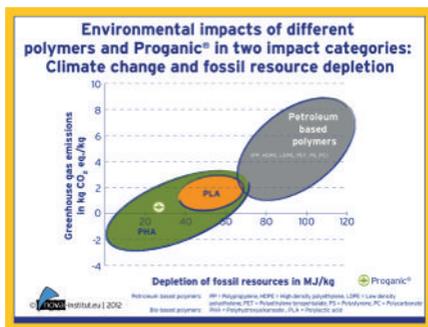
Customers Since 2010 brands such as PROPPER, RIVAL and DORAPLAST produce household and gardening products made from PROGANIC®. The range varies from watering cans, flowerpots, adhesive hooks to brushes and kitchen tools. PROGANIC® products are available in stores in Germany as well as major retailers internationally. PROGANIC® is a strong brand with a clear marketing strategy. Therefore, we support our manufacturers with complete advertising packages and communication measures for their point of sale.



Each item carries the PROGANIC® quality seal of approval.



PROGANIC® – PRO EARTH



The figure above shows the results of a meta-analysis of life cycle assessments for bio-based polymers in the production of Proganic®. The ellipse on the upper right, which contains data with a use of fossil resources of more than 70 megajoules per kilogram plastics and greenhouse gas emissions of partly clearly more than three kilograms CO₂ equivalents per kilogram plastics, correlates to petrochemical plastics. The other two ellipses illustrate the results of the bio-based plastics PLA and PHA/PHB, the data of which for the use of fossil resources are lower than 70 megajoules per kilogram plastics. At the same time the greenhouse gas emissions of bio-based plastics amount to clearly less than three kilogram CO₂ equivalents per kilogram plastics. Calculating the greenhouse potential of Proganic® yielded an amount of 0.5 kilograms CO₂ equivalents per kilogram of that bio-based material. The use of fossil resources was calculated at 27 megajoule per kilogram Proganic®. That means: If the production of PLA and PHA/PHB, in comparison to the production of petrochemical plastics, leads to lower greenhouse gas emissions and lower use of fossil resources, this is to be expected for Proganic® itself. In the figure above, one can see the respective values marked with the company logo of Proganic®.

Advantages

- Made from 100% renewable raw materials and minerals
- Saving CO₂ emissions and conserving the earth's natural resources
- Fully biodegradable formula
- Food safe
- Water resistant and repellent
- Weather resistant to the sun's UV rays
- Extremely hard wearing and resilient

PROGANIC® and the Future

Our vision is to replace conventional plastic with PROGANIC® as much as possible. We invite other plastic manufacturers to join us and become a PROGANIC® manufacturer. PROGANIC® is 100% natural; our quality seal confirms this on every product. PROGANIC® is our contribution to a sustainable way of life and the preservation of the earth's natural balance.



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