Biocomposite fibers and coproducts

Bioplastic raw materials

Bioplastic compounds

Expert in bioplastics
Your partner to develop your solution in bioplastic

www.natureplast.eu
The evolution towards bioplastics cannot be ignored. Consumers are in demand. Engineers are developing them. Industrials are already using them. Bioplastics are already everywhere: in research labs, in marketing projects, in converters fields of studies, in mass-production industries, and tomorrow... at home! Today, the use of polymers derived from sustainable resources is a fact. In all fields, the use of bioplastics has naturally taken its place in our businesses: wrapping, packaging, finished products (pens, flowerpots, cosmetic bottles, credit cards...). But their newly discovered properties will lead them to explore new grounds. Some are fully biodegradable and/or compostable.

Bioplastics are your best allies to lead your company to the implementation of a truly sustainable development. Through your manufactured goods or your packaging, their natural added value is likely to improve the way your customers perceive your company.

Looking for innovation with no revolution?
Insert bioplastics in your marketing and R&D!

NaturePlast Compounds

Raw materials
- Biobased materials: biobased PE, biobased PET, biobased PA, biobased TPE, cellulose esters
- Biodegradable materials: PLA, PHA, Biopolymesters, biodegradable TPE

Performance range: mechanical, thermal, processing properties optimization.
Lifetime range: shelf life modulation
Functional range: incorporation of active substances

Biocomposites fibers and coproducts
- Incorporation of natural fibers
- Incorporation of coproducts / wastes

Tomorrow’s bioplastics will be produced from biomass (waste, algae, sewage...).

Today’s bioplastic pellets are issued from vegetal resources.
NaturePlast group in bioplastic value chain

NaturePlast

PRODUCTS
- Raw materials
- Additives

SERVICES
- Trainings
- Techno-economical watch
- Project engineering
- Technical assistance

R&D
- Customized formulation
- Characterization
- Production of compounds

3 areas of expertise
for comprehensive support in your development projects in bioplastics

NaturePlast

Raw materials
Additives
Natural fillers

World imports of all types of bioplastics

Converters
Buyers
Chemists
Producers of plastics
Distributors of plastics

Our clients

Laboratories
Technical centers
Universities
Current and future producers of bioplastics

Waste valorization

R&D step (modification / optimization of raw materials)
Our services

Training
NaturePlast offers two types of training to have a better understanding of bioplastic’s market:

• Multi companies generic training
• On site company training
• Program: materials, properties, applications, certifications, environmental data...

NaturePlast has a registration number from the Ministry of Labour.

Techno-economical watch
Survey is an important activity for any business. It is even more for new markets in evolution such as bioplastics. New additives and raw materials are regularly developed by producers and serve to broaden the scope of these materials. A constant techno-economical watch allows NaturePlast to possess a large knowledge of worldwide bioplastic network (current and future producers, converters, laboratories and R & D, applications...).

Projects engineering
NaturePlast follows you and carries you to edit your projects in terms of:

• Feasibility study and market study.
• Writing specifications.
• Seeking technical and industrial partners, universities…
• Definition of stages, schedules and associated budgets.

Technical support
Like all plastics, biopolymers have their own converting properties (temperature, shrinkage, rheology...). Thanks to the experience gained with several hundreds of clients, NaturePlast possesses a strong knowledge of the transformation of its materials and their characteristics. Our team of experts will assist you in your testing so you can grip easier and faster to these new materials.

www.natureplast.eu
Strengths

How bioplastics serve the industry

Increased awareness of public opinion for environmental problems. The sustainable development approach: the use of bioplastics offers a wide range of advantages and benefits for your business.

The advantages for the company:
- New communication on company values.
- Company’s commitment in a true sustainable development approach.
- Company at the cutting edge of innovation.

The benefits for the product:
- Communication on packaging / differentiation on stands.
- Media communication (TV / press / radio).
- Technical advantage (biodegradability).

Examples
"Bioplastics" define polymers produced from plant resources renewable every year and/or biodegradable and compostable.

**Raw materials** used for production of biopolymers called “first generations” are generally derived from plant resources. Many researches tend to diversify resources used with the use of non-valued resource (algae, waste…). Thanks to technological advances, all biopolymers will be derived from non-food biomass in a near future. Advantages of these materials are therefore to provide a greener alternative to the commonly used polymers.

The main factors on which the use of bioplastics will have an impact on, are the reduction of greenhouse gases emissions, the use of fossil resources and energy consumption during processing. For some bioplastics, management of waste can be managed more effectively by the elimination in industrial composting facilities. The transition to the concept of biorefinery or use of alternative energy will make production even cleaner.