Your customized bioplastic solution

www.biopolynov.com
Our Goal
Biopolynov is a research and development center created by Natureplast, dedicated to modification and improvement of bioplastics properties. Our R & D services aim to both converters (large or small groups) and customers (packaging, consumer products, transportation, construction...) or bioplastics producers wishing to upgrade their products / packaging / resins towards more environmentally friendly materials.

Evolution / bioplastics properties
Bioplastics appeared commercially less than fifteen years ago compared to plastics from oils that have largely been developed over the last sixty years. These new materials are changing quickly, but there is still a gap between bioplastics properties compared to conventional materials. This difference will be filled through the development of bioplastics in order to meet technical specifications (high mechanical properties, barrier, thermal, chemical, durability...).
Our Services

Development of materials tailored to meet your specifications
Characterization of bioplastics
Sample production of compounds

In addition to these services, Biopolynov team may assist you in all stages of your development (partners search, drafting the specification, certification...).

Our Added value

**BIOPOLYNOV** beneficiates of NATUREPLAST accumulated experience:

- **Formulation** knowhow: a team of Engineers and Doctors with many years of experience in changing bioplastics properties.
- Knowledge and access to different **raw materials and additives**: a large portfolio including several hundreds of references.
- French and European **network** of research partners (technical centers, universities...) and industries (suppliers, compounders, converters...).

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Processing equipments:
- An injection molding machine, 100T capacity.
- A twin-screw corotative extruder, L / D 50
- A grinder
- A desiccator
- Ovens
- Prototyping: extrusion calendering and blowing

Characterization equipments:
- Density (ISO 1183)
- HDT / Vicat (ISO 75 / 306)
- Tensile / Flexural / Compression strength (ISO 527 / 178 / 604)
- Charpy impact strength : notched / unnotched (ISO 179)
- Melt: MFI / MVI (ISO 1133)
- Karl Fisher (ISO 15512)
- Accelerated climate aging chamber

Coprodutcs valorisation equipemeents :
- Dryer
- Grinder
- Siever

In addition to these facilities, Biopolynov has a wide network of Europeans technical partners (private and public R & D centers), allowing us to have access to others equipments needed to validate our R & D.