

## GREENGRAN B.V.

### Foundation

- GreenGran B.V. was established in 2007, GreenGran BN (HK) Ltd was established in 2008

### Turnover

- 1–5 million €

### Employees

- 25

### Branches

- Bio-composite granules for injection moulding applications

### Key materials

- Natural fibre reinforced PP
- Natural fibre reinforced PLA
- PHB
- PLA/PHB compounds

### Key bio-based products

- Eight different bio-based composite granules grades for injection moulding applications (see text)



### Company

Founded in 2007, GreenGran combines more than 30 years of industrial plastics processing with 15 years of R&D in bioplastics and natural fibre composites. As producer of bio-composite granules for injection moulding applications, GreenGran is ready to serve the bio-based economy. Our innovative materials can economically and technically compete with traditional engineering plastics. Our team of skilled technicians and our sustainable, recycle-able and cradle-to-cradle product range enable us to provide smart and green solutions, matching your requirements. Instead of supplying just granules, we also assist end-users in matching product specs with the right material compositions and we assist operators in setting the right product processing parameters.

Our current production is located in Hong Kong. Increased capacity is projected for 2012, including production in Europe.

### Material

The material properties of our granules are such that they compete with engineering compounds. This applies for properties like stiffness, strength, high heat tolerance (HDT). Typical engineering compounds to be displaced are: PP-glassfibre, High Heat ABS, PC/ABS.

Our granules encompass a number of unique qualities, such as:

- Bio-based: partly for PP-based fibre compounds, up to fully for PLA-based fibre compounds; this addresses global policies regarding carbon footprint and oil-dependence
- Recycle able for PP-based fibre compounds and for PLA-based fibre compounds
- Biodegradable for PLA-based fibre compounds
- Flame retardant for specific grades, using halogen-free additives
- Clean fuel pellets at the end of their life cycle (not applicable for flame retardant grades)





At present our standard grades include:

- **N021J** – High melt flow general purpose grade, granules based on polypropylene and natural fibres, which combines high stiffness with high impact strength.
- **N023J** – General purpose grade, granules based on polypropylene and natural fibres, which combines high stiffness with moderate impact strength.
- **N026J** – Engineering grade, granules based on polypropylene and natural fibres, which combines very high stiffness and strength with moderate impact strength. Excellent thermal properties (HDT).
- **F023J** - General purpose flammability grade, granules based on polypropylene, natural fibres, and halogen-free additives, which combines high stiffness with V0 flame retardant properties at thin wall.
- **F023J-SP** - Special purpose flammability grade, granules based on polypropylene, natural fibres, and halogen-free additives, which combines high stiffness with 5VB flame retardant properties and V0 at thin wall.
- **B621J** - Standard heavy-weight waterworks grade, granules based on polypropylene and natural fibres, which combines very high stiffness and strength with moderate impact strength.
- **P021J** - Fully bio-based grade. Granules made from PLA and natural fibres, which combines ultra-high stiffness and strength with moderate impact strength. Excellent processability, good surface finishing, easy to mix with bio-based colour masterbatches.
- **P023J** - Fully bio-based engineering grade. Granules made from PLA and natural fibres, which combines ultra-high stiffness and ultra-high strength with moderate impact strength. Excellent processability, good surface finishing, easy to mix with bio-based colour masterbatches.

In case our standard grades do not meet the needed product requirements, we can develop suitable tailor-made grades.

Being agent in Europe, GreenGran also supplies all PHB-based grades from Tianjin Green BioScience Co., Ltd. (Green Bio).

Contact us for detailed info on material properties, price ranges, and for matching our materials with your bio-based product needs.

## Products

Our client's product portfolio is very diverse, covering flame retardant compounds for E&E industry, PP-based NF compounds for industrial construction parts and PLA-based natural fibre compounds for both sustainable and biodegradable applications.

Examples of typical products are Mayamax' BioCharger Family, Anome's Ground Consolidator and Q-DP's Amura Signing.



Suppliers



## Contact

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