

Foundation

- 1908

Turnover

- 20 million €

Employees

- 70

Key products

- JELUPLAST® WPC granulates for industrial processing
- JELUXYL® Pure-grade wood fibres
- JELUCEL® Cellulose fibres and powders



Natural fibres. Simple and effective.

Company

JELU-WERK has developed an efficient process for the production of homogeneous Wood Plastic Composites (WPC) from plastic, wood fibres and additives. We supply premixed compounds and also manufacture customised blends to order. We are a medium-sized company that has been managed by the Ehrler family for more than two generations.

Our bioplastics

To produce our WPC granulates we compound plastics and wood fibres to create a homogeneous biocomposite. Our WPC is granulated, as processing granulates results in extremely homogeneous end products. The compounds have consistent running properties on the machine, facilitating a higher output. Compounding also increases the density of the biocomposite and improves its material properties, giving the end products greater strength and stiffness.

We only use our own wood fibres for our biocomposites, as these meet certain criteria, such as having a fixed grain size and being of the same type of wood. Thus we are able to reliably set the physical-mechanical properties of our biocomposites to specific values. By means of additives, the characteristics can be varied and adjusted to individual applications. Our biocomposites fulfil the German standards for use in foods and toys.

Characteristics

Depending on the composition of the WPC granulates, the resulting products are suitable for outdoor or indoor use. WPC has already proven optimal performance in many applications because of its extraordinary properties:

- Mouldable like plastics
- Firm like wood
- Not electrically conductive
- Inexpensive like plastics (basic compound without additives)
- Fulfils all important standards for toys and foods
- Improves carbon footprint
- Reduces environmental impact due to plastics

Ingredients

We offer compounds based on different ingredients. We process the following plastics:

- Polyethylene (PE) from mineral oil
- Polyethylene (PE) from sugar cane
- Polypropylene (PP)
- Thermoplastic starch (TPS)
- Polylactide (PLA)



Products made from JELU WPC granulate using the extrusion technique.



Profiles made from JELU WPC granulate using the coextrusion technique.



Other plastics are also suitable for making biocomposites. Please contact us if you are looking for a WPC that is based on another plastic material.

We use the following fibres:

- Wood fibres
- Cellulose fibres

All compounds can be modified by additives. We adjust the properties of the compound to specific applications in line with your requirements. Let us know what you want from your compound and we will tell you what is feasible.

Processing

We have developed our WPC granulates for use in industrial processing. The biocomposites are suitable for conventional plastics processing machines, and have a proven track record in injection moulding and extrusion. Our technicians have many years of experience and will be glad to help our customers with advice on processing WPC on their premises. We are happy to provide you with product samples and test rods. You can find data sheets with process parameters and measurement results on our website: www.jeluplast.com. We can quickly determine the compound that is suitable for your application by talking to you. Please call us.

Pure biocompounds: 100% natural

We have also developed a number of bioplastics that are manufactured using only renewable raw materials. Thus we offer a fully compostable biocomposite consisting of thermoplastic starch (TPS) and wood fibres. The compound meets the European standard for compostability (DIN EN 13432). We produce another compostable biocomposite from polylactides (PLA) and wood fibres. Products made from this compound can be recycled in composting plants. We also process polyethylene (PE) from sugar cane to produce WPC. Since PE from sugar cane has the same properties as PE from mineral oil, products made from this compound are weather- and moisture-resistant.

www.jeluplast.com

Here you will find further information, data sheets and process parameters. We look forward to your visit!



These two containers were manufactured from JELU WPC granulate using injection moulding.



These sprockets were also manufactured from JELU WPC granulate using injection moulding.

Contact

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