



# GLEISTEIN FACTSHEET

## Bio-based Dyneema® fibre

### Going even greener: Gleistein's complete switch to bio-based Dyneema®

To ensure the implementation of the highest standards for resource-conscious and ethically responsible production and use of its products, Gleistein Ropes has proudly become the world's first major rope manufacturer ...to switch its entire portfolio of products made with Dyneema® to be manufactured exclusively from bio-based Dyneema® fibres. True to its core values, Gleistein has a solid history in taking a proactive approach to promote sustainability and environmental protection. Its conversion to green electricity and establishment of our own combined heat and power plant in 2013, recognition as being the first "Climate Protection Company CO<sub>2</sub>-20" by the state government of Bremen in 2015, waste avoidance through outstanding product longevity, on-site vehicle charging stations to promote e-mobility as well as the settlement of bee colonies on the company premises are clear testimony of this, as is now being the world's first major rope manufacturer to completely switch to bio-based Dyneema®.

### What is bio-based Dyneema® fibre?

Bio-based Dyneema® is the first ever bio-based HMPE fiber. To enable this, it utilises the so-called mass balance approach and further reduces reliance on fossil fuel-based resources, thereby helping to cut carbon emissions without any compromise to quality whatsoever.



#### Green:

A carbon footprint that is 90% lower than generic HMPE



#### As strong as ever:

Boasts the exact same characteristics, specifications and performance as conventional Dyneema®



#### Certified:

Entire process is certified for compliance according to the International Sustainability and Carbon Certification (ISCC)

### What is the bio-based Dyneema® "mass balance approach"?

The mass balance approach is designed to trace the flow of bio-based and fossil feedstocks used in the complex production value chain. It entails ensuring the share of bio-based feedstock used in the production process is accurately and separately registered. In this way, the exact portion of the final product made with the bio-based fibre component can be accurately identified and allocated at the end of the production process – and is certified by the ISCC. The mass balance approach is common place and has been successfully implemented for many years, such as in the supply of green gas and electricity.

Contact us!  
[gleistein.com](http://gleistein.com)



#### Further Infos

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