

## Poly lactic acid (PLA) FibraQ compound (30% wood fibers)

### Description:

Compounded formulation containing PLA with 30% FibraQ mixed via a Twinscrew extruder. The composites are fully biobased and industrially compostable, based on i) a biopolymer resin (corn) and ii) FibraQ. No further additives were used, such as impact modifier or flowability aids, though they could be used to further improve some of the properties.



FibraQ is Biofiber Tech's product, consisting of surface-modified wood fibers with enhanced hydrophobicity, low moisture absorption and high flowability within polymer matrices.

### General

Processing Method	Injection molding
Forms	Pellets
Filler	Surface modified wood fiber, 30% filler by weight
Density	Ca. 1.24 g/cm <sup>3</sup>
Renewable carbon content	100%
Recommended Processing temperature	170-190°C
Code name	PLA02-30

### Typical properties:

Feature	Method	Unit	Values
Tensile strength at Break	ISO 527-2:2012	MPa	65.88
Tensile modulus	ISO 527-2:2012	MPa	4831
Elongation at Break	ISO 527-2:2012	%	1.49

*The values were measured on standardized test specimens and can be affected by pigmentation, mould design and processing conditions. Biofiber Tech is therefore not responsible for the accuracy of the provided values and cannot give any warranty with regard to the correctness.*

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