

Processing advice

Product name: Fibrolon® 3D Bamboo, Fibrolon® 3D Cork, Fibrolon® 3D Wood

14 June 2017 Version: 1

Designation of product, preparation and manufacturer

Trade name: Fibrolon® 3D Bamboo, Fibrolon® 3D Cork, Fibrolon® 3D Wood

Use of product: Biodegradable compound suitable for the production of 3D printing filaments. Contains natural fibers.

Manufacturer: FKuR Kunststoff GmbH

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Processing conditions for profile extrusion

Machine equipment: Standard polyolefin line.

 Machine settings:
 Feeding Zone
 60 [°C]

 Zone 1
 160 [°C]

 Zone 2
 170 [°C]

Zone 3 180 [°C]
Zone 4 180 [°C]
Die 185 [°C]

Purging advice: profile extrusion

Before production: Ensure that all temperature zones work correctly. Purge the extruder with low viscosity PP or PE

using the above temperature settings. Purging time: approximately 10 to 20 minutes. We recommend

to change the screen before production.

During production: Heat extruder and nozzle to the recommended temperature. If melt is too viscous, increase

temperature stepwise. Material has a tendency to degrade and therefore should not remain hot inside

the machine for too long.

Reduce the temperature of the die, if the melt stability is too low.

After production: Purge the extruder with high viscosity PP or PE. Do not allow material to remain hot inside the

machine for extended periods as the material will degrade.

Drying conditions and storage

General: Fibrolon® is a biodegradable plastic based on PLA and other biopolymers. Moisture content can lead

to hydrolysis. Residual moisture content of more than 0.2 % can result in fish eyes and/or pin holes

during processing.

Drying: We recommend drying Fibrolon® at 60°C for a period of 2 - 4 hours.

Storage conditions: If not specified otherwise product life is 6 month after shipment from Sellers warehouse if product is in

its original packaging, stored under dry (max. 70% relative humidity) and dark conditions (not exposed to sunlight at a temperature of 5 °C to max. 30°C (ambient temperature). It is important to observe that a major drop in external air temperature (e.g. during transportation) can result in a development of water condensate. Prior to the processing of the material, it should be ensured that

there is no condensate on the packaged product.

Storage conditions for finished products: Finished products made from Fibrolon® must be stored dry and cold. It is recommended to wrap

goods in black PE liners to protect them against moisture and UV radiation. Storage time depends on processing parameters and of climate conditions in the respective area. Because of these essential and complex interacting parameters, FKuR Kunststoff GmbH cannot give any shelf life guarantees for finished products. Please notice that the conditions mentioned above depend on experience of our

customers. Each customer should execute individual storage tests according to product

specifications and storage requirements.

Legal notice

General: Neither FKuR Kunststoff GmbH nor its marketing affiliates shall be responsible for the use of this

information or of any product, method or equipment mentioned. Customers must undertake their own determination of this product's suitability and completeness for their own use, for the protection of the environment, for the health and safety of their employees and purchasers of their products. No warranty is made of the merchantability or fitness of any product, and nothing herein waives any of

the seller's conditions of sale.

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Kunststoff GmbH, according to the international 'Nice-Classificsations' (NCL9), no. 01, 02 and 17.