

Natural Fiber-BioComposites

Water proof, compostable CAPROWAX P NF-BioComposites are fine-grained, free flowing, thermoplastic "Bio-Dry-Blends". The manufacturing is carried out with the binding agent **CAPROWAX P 6006-C65** as a powdery intermediate

CAPROWAX P™ 6006-C65-NF41xx	rosin free wood fibres	(xx = 10 - 40%)
CAPROWAX P™ 6006-C65-NF5xxx	microcristalline cellulose	(xx = 10 - 40%)
CAPROWAX P™ 6006-C65-NF40xx	cellulose fibres	(xx = 10 - 40%)

Coating, Bonding, Thermoforming, Sinter-/Core material

The powdery binding agent consists of aliphatic - MARINE biodegradable, home/ industrial compostable - certified polyester and modified, readily biodegradable, renewable, GMO-free plant oil and is comparable with **CAPROWAX P™ 6006-00-000**

Tested by MFPA, University Weimar, in accordance with DIN EN 13432

Test material: **CAPROWAX P® 6006-00-000**

Test certificate No.: P31/029-05

83,7 % organic carbon *) of binding-agent are from biobased resources *) calculated

Advantageous, fibre-friendly processing without extrusion at 100-160 °C to thermoplastic, compostable Bio-NFC or Bio-WPC.

The end products are created first by thermoplastic processing at 140-160 °C with or without extrusion.

Optional processing without extrusion:

Dispersion, metering, powder coating, venting, drying at 70-80 °C by IR or Micro-waves / sintering / fusing 140-160 °C, grouting 100-130 °C / cooling down to RT

Further thermopressing at 100-130 °C. Thermoforming at 80-100 °C

Injection moulding / deep drawing:

Predrying at 50 °C/12 h for thermally (100-120 °C) compacted, low-dust NF-BioComposite-Pellets and after that injection moulding processing in a range of 140-160 °C. Mould 15 °C Colouration with **CAPROWAX P™**-Masterbatches see under www.caprowax-p.eu

Following products can be created with Bio-NFC and Bio-WPC:

Textil-/fiber composites, fibers coating, injection moulding, sandwich plates, trays, décor, sheets, composite boards, sintered compacts, core material and so on.

Test material available in form of a 300 g / 1000 g lab sample upon consulting

CAPROWAX P™ compostable of course

