

Natural Fiber-Bio-Composites

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-NF40xx cellulose fibres (xx = 10 - 40%)

CAPROWAX P™ 6006-C65-NF5xxx microcrystalline cellulose (xx = 10 - 40%)

Coating, Bonding, Thermoforming, Sinter-/Core material

The binding agent consists of aliphatic, 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
Advantageous, fibre-friendly processing without extrusion at 100-160°C to thermoplastic, compostable Bio-NFC or Bio-WPC. *) calculated.

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

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

Optional processing without extrusion:

Dispersion, metering, powder coating, compacting, drying at 70-80°C by IR or Micro-waves, sintering/fusing 90-160°C, grouting 100-160°C / cooling down under pressure / further thermoforming at 90-160 °C.

Injection moulding / deep drawing:

Predrying of thermally compacted, low-dust NF-BioComposite-Pellets at 50°C/12h and after that processing in a range of 130°-160°C.

Colouration with **CAPROWAX P™**-Masterbatches see under www.caprowax-p.eu

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

CAPROWAX P™ compostable of course

