

# Project NF-BioComposites

For customer projects water proof NF-BioComposites are produced as free flowing, thermoplastic "Bio-Dry-Blends". The manufacturing is carried out with the binding agent CAPROWAX P 6006-C65 as an intermediate in powder form.

CAPROWAX P™ 6006-C65-NF40xx	cellulose fibres	(xx = 10 - 40%)
CAPROWAX P™ 6006-C65-NF57xx	microcrystalline cellulose	(xx = 10 - 40%)
CAPROWAX P™ 6006-C65-NF41xx	rosin free wood fibres	(xx = 10 - 40%)

## Material for different 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](http://www.caprowax-p.eu)

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

CAPROWAX P™ compostable of course

