

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 Bio-Dry-Blend binding agent CAPROWAX P 6006-C65 as an intermediate in powder form. This will be combined with NF up to 50%, or rock flour up to 20%. Colouration with mineralic BioMasterbatches.

CAPROWAX P™ 6006-C65-NF40xx cellulose fibres (xx = 20% /30% /40%)

CAPROWAX P™ 6006-C65-NF41xx rosin free wood fibres(xx = 20% /30% /40%)

Material for different Thermoforming, Sinter-/Core material

The binding-agent is comparable with **CAPROWAX P™ 6006-00-000** certified by MFPA, University Weimar, in accordance with DIN EN 13432

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

Test certificate No.: P31/029-05

A compostable material in a range of 80-90% organic carbon from biobased resources
The binding-agent material **CAPROWAX P 6006-C65** is produced from powdered material

Further Nature-Fibres upon consultation:

Lignocel, Cherry, Walnut, Hemp, Straw, Casein, Leather, Keratin

Mineral powder: Granite, Calcite, Slate, Mica up to max. 25 %

Following products can be created with Bio-NFC and Bio-WPC: Trays, plates, décor, sheets, composite boards, sandwiches, 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 / futher thermoforming at 90-160 °C.

Injection moulding:

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™**-BioMasterbatches see under www.caprowax-p.eu

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

CAPROWAX P™ compostable of course

