

09-20 Info letter **CAPROWAX P** Colour **Masterbatches**

Ladies and gentlemen,

December 2020

gladly I would like to inform you the latest of **CAPROWAX P™**- Masterbatches.

Colour application of biopolymer/biocomposites with CAPROWAX P Masterbatches

The palette of **CAPROWAX P™** Masterbatches is changed now to the eco-friendly, calcined, soil-related, pigmentlike Kaolin (FK) as a white pigment. Titanium Dioxide will be used in exceptional cases only or strong reduced.

The new masterbatch CAPROWAX P White FK 005 with a pigmentlike, calcined Kaolin and with compostable, waterproof carrier material **CAPROWAX P™ 6006-C65** (intermediate) enable an eco-friendly colouration with soil-related composition of pigments.

The biomineral, natural Calcium Carbonate, is used as a white pigment with gentle covering brightening. **CAPROWAX P™**- carrier material consist of aliphatic, home / industrial compostable certified polyester and modified, readily biodegradable, renewable, GMO-free plant oil.

Masterbatches are suited for universal colouration of Bioplastics / Blends / Biocomposites / Filaments:

PLA, PBS, PHA, PCL, **CAPROWAX P™/Blends/BioMineralComposites**, Polysaccharide/Derivate, PVAc/Bioplastic-Blends, PVOH, Bio-NFC/WPC, Bio-UPR, Bio-TPE and NIPU.

Low-dusty incorporated in a compostable carrier material pigments are:

- calcined pigmentlike Kaolin (white pigment)
- biobased vegetable Carbon (black pigment)
- harmless inorganic pigments of synthetic, aniline free production (chromatic and achromatic, pearlescent pigments)
- natural, biomineral Calcium Carbonate (gentle covering white pigment)

for translucent, covering, achromatic and pearlescent colouration.

They are lightfast, non-migratory, temperature stable, insoluble in water, comparable with natural, mineral pigments and already mineralised.

Masterbatch pellets are added to different bioplastics in a range of 0,5-6%.

Processing range at 90-200°C, short time up 220°C.

In coloured final products content of each separate pigment is ≤1%.

In the course of composting the brown to black colour of compost or humus change over to the coloured bioplastic and the colourful appearance disappears.

Colourations with natural, bio-mineral Calcium Carbonate-Masterbatches support biogenic weathering in soil and waters.

Coloured bioplastics comply the specifications of DIN EN 13432.

Kind regards
A. Dinkelaker

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Ideas increase to pellets

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