

CAPROWAX P™ 6006-C65-NF4040 Bio-Dry-Blend-Powder

Application: Nature Fibres-Bio-Composites, Sinter- and Carrier Material

Customer Information:

Laboratory prototype

Albrecht Dinkelaker

Fon +49 (0)7625 918458

for customer projects

Polymer and Product Development

info@polyfea2.de

Product information

Blumenweg 2

www.caprowax-p.eu

02/2018

D 79669 Zell im Wiesental

Physical Properties

| | | |
|--|-----|-----------------|
| Physical form | | Powder <800 µm |
| Apparent density | g/l | ca. 290 |
| Tamped density | g/l | ca. 448 |
| Fibres content | % | 40 |
| Particle nature Fibres | µm | <300 (99,5%) |
| Residual humidity | % | <5 |
| Softening Temp. DIN EN ISO 11358 °C (°F) | | 57-63 (135-145) |

*) Based on the biological sources of waxes different values of viscosity could be occur

Tensile strength and elongation are dependent of temperature and stretching conditions

Measurements make only sense with comparable process conditions and thickness of moulded or stretched articles

Description

CAPROWAX P™ 6006-C65-NF4040 is a mixture between the binder CAPROWAX P 6006-C65 (intermediate) and 40 % part of readily processable, white cellulose fibres. All organic components are biodegradable

NF-BioComposite

Ø 86%* of organic carbon from biobased resources

Total amount of organic carbon: Ø 66%*

Advantages of basic blend

*) calculated

Dry-Blend-Binder/NF-Fibres comply the specifications of DIN EN 13432

Dry-Blend-Binder CAPROWAX P 6006-C65 is an intermediate manufactured by powdered material, comparable with **CAPROWAX P® 6006-00-000 (Testmaterial)** compostable according to DIN EN 13432, up to 500 µm, Test certificate No.: P31/029-05, MFPA University Weimar

No food and feeding stuff

Ecofriendly composition

GM-free, no content of starch or PLA

Without content of aromatic or nitrogenous substances

Free colour design with white fibres

Applications

Bio-Dry-Blend-Powder for NF-BioComposites, sintered core-material, Bio-NFC, Bio-WPC, trays, plates, decor, sandwiches, pellets, fixed bed material for growth, consumable bioreactors
Suited for compostable one way products

Composites with nature fibres

Thermoforming under gentle condition without extrusion
Mixing/powder rolling, than drying at 70-80°C (158-166°F)
Compacting/Deaeration at 80°C (176°F)
Sintering at 90-140°C (194-284°F)
Grouting at 100-120°C / Cooling down under pressure
Bio-NFC and Bio-WPC thermoforming at 80-160 °C.
Other thermoforming methods with pellets at 100-160°C

Storage/Instruction

Avoid heat and moisture, storage in original containers only
Do not heat melt above 90°C (194°F) over long time

CAPROWAX P™ compostable of course