

# CAPROWAX P™ 6006-C65-NF4040

# NF-BioComposite

Application:

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

Customer Information:

Laboratory prototype

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for Customer projects

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Product Information

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09/2020

D 79669 Zell im Wiesental

## Physical Properties

Physical form		Powder <800 µm
Apparent density	g/l	ca. 350
Tamped density	g/l	ca. 540
Fibres content	%	40
Particle nature fibres	µm	<300 (99,5%)
Residual humidity	%	<4
Softening Temperature	DSC °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 of NF-Bio-Composite Bio-Dry-Blend

CAPROWAX P™ 6006-C65-NF4040 is a mixture between powdered, basic components of CAPROWAX P 6006-C65 (intermediate) And 40 % part of readily processable, white cellulose fibres. **86% of organic carbon are biobased (calculated)**  
All components comply the specification of DIN EN 13432

## Advantages of binder CAPROWAX P 6006-C65

consists of aliphatic, home/industrial compostable, certified polyester and modified, readily biodegradable, renewable, GMO-free plant oil. manufactured in form of powdered intermediate, comparable with **CAPROWAX P® 6006** DIN EN 13432 tested by MFPA Weimar

Certificate No.: P31/029-05

## 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, fixed bed material for growth, consumable bioreactors, Fibre Composite material, thermoplastic NatureFibre-Bio-Prepregs  
In pelletized form: Injection moulding or other thermoforming  
Suited for compostable one way products

## NF-BioComposites with sintering or extrusion

Processable under gentle condition without extrusion  
Mixing, powder scattering, drying at 70-80°C (158-166°F)  
Compacting/Deaeration at 80°C (176°F)  
Sintering at 90-160°C (194-320°F)  
Grouting at 100-120°C / Cooling down under pressure  
Bio-NFC and Bio-WPC thermoforming at 90-160°C.  
Other thermoforming methods with pellets at 100-160°C like injection moulding or extrusion after thermoplastic agglomeration of powder to pellets

## 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™ NF compostable of course**