

CAPROWAX P™ 6006-C65-NF4010

NF-BioComposite

Application:

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

Customer Information:

Laboratory prototype

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for Customer projects

Polymer and Product Development

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Product Information

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Physical Properties

Physical form		Powder <800 µm
Fibres content	%	10
Particle nature fibres	µm	<300 (99,5%)
Residual humidity	%	<4
Apparent density	g/l	ca. 350
Tamped density	g/l	ca. 540
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-NF4010 is a mixture between powdered basic components of CAPROWAX P 6006-C65 (intermediate) and 10 % part of readily processable, white cellulose fibres. **84,1% 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 nitrogeneous substances
Free colour design with white fibres

Applications

Bio-Dry-Blend-Powder for NF-BioComposites, sintered core material
Bio-NFC and Bio-WPC, cups, trays, plates, decor, sandwiches,
Pellets for fixed bed, 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