

Customer Information:

Laboratory prototype

Albrecht Dinkelaker

Fon +49 (0)69 76 89 39 10

for Customer projects

Polymer and Product Development

info@polyfea2.de

Product Information

Talstrasse 83

www.caprowax-p.eu

05/2021

D 60437 Frankfurt am Main

**Physical Properties**

Physical form		Powder <800 µm
Fibers content	%	10
Particles nature fibres	µm	<300
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 spreadable, thermoplastic NF-Composite-Bio-Dry-Blend-Powder**

CAPROWAX P™ 6006-C65-NF4010 is a dry-blend-mixture of compostable binding agent CAPROWAX P 6006-C65 (intermediate) and 10 % 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 compostable Certificate No.: P31/029-05**

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

**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 and Bio-WPC, cups, trays, plates, decor, sandwiches, Pellets for fixed bed, consumable bioreactors  
Fibers Composite material, thermoplastic NatureFiber-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**

Application:

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

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**Physical Properties**

Physical form		Powder <800 µm
Fibers content	%	20
Particles nature fibres	µm	<300
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 spreadable, thermoplastic NF-Composite-Bio-Dry-Blend-Powder**

CAPROWAX P™ 6006-C65-NF4020 is a dry-blend-mixture of compostable binding agent CAPROWAX P 6006-C65 (intermediate) and 20 % white cellulose fibres.

84,6% of organic carbon are biobased (calculated)

All components comply the specification of DIN EN 13432

**Advantages of binder CAPROWAX P 6006-C65 compostable Certificate No.: P31/029-05**

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

**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 and Bio-WPC, cups, trays, plates, decor, sandwiches, Pellets for fixed bed, consumable bioreactors  
Fibers Composite material, thermoplastic NatureFiber-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**

Application:

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

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**Physical Properties**

Physical form		Powder <800 µm
Fibers content	%	40
Particles nature fibres	µm	<300
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 spreadable, thermoplastic NF-Composite-Bio-Dry-Blend-Powder**

CAPROWAX P™ 6006-C65-NF4040 is a dry-blend-mixture of compostable binding agent CAPROWAX P 6006-C65 (intermediate) and 40 % 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

Certificate No.: P31/029-05

CAPROWAX P® 6006 DIN EN 13432 tested by MFPA 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 and Bio-WPC, cups, trays, plates, decor, sandwiches, Pellets for fixed bed, consumable bioreactors  
Fibers Composite material, thermoplastic NatureFiber-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