

Customer Information:

Laboratory prototype**Albrecht Dinkelaker**

Fon +49 (0)69 76 89 39 10

for Customer projects

Polymer and Product Development

info(at)polyfea2.de

Product Information

Talstrasse 83

www.caprowax-p.eu

07/2022

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

consists of aliphatic - biodegradable MARINE, home/industrial compostable - certified polyester and modified, readily biodegradable, renewable, GMO-free plant oil.

Certificate No.: P31/029-05

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

Application:

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

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Polymer and Product Development
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D 60437 Frankfurt am Main

Product Information

07/2022

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

consists of aliphatic - biodegradable MARINE, 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

Application:

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

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D 60437 Frankfurt am Main

Product Information

07/2022

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 - biodegradable MARINE, 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