

CAPROWAX P™ 6006-C65-NF5720 NF-BioComposite

Application:

Nature-Fibers-Bio-Composites, Dry-Blend-Powder-Coating

Sinter- and Carrier material

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Fon +49 (0)69 76 89 39 10

info@polyfea2.de

www.caprowax-p.eu

for Customer projects

Product Information

08/2021

Polymer and Product Development

Talstrasse 83

D 60437 Frankfurt am Main

Physical Properties

Physical form			Powder, fine-grained <800 µm
Cellulose content	%		20
Cellulose particles d50	µm		248
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 free flowing, thermoplastic NF-Bio-Composite-Dry-Blend-Powder

CAPROWAX P™ 6006-C65-NF5720 is a fine-grained dry-blend-mixture of compostable binding agent CAPROWAX P 6006-C65 (intermediate) and 20 % microcrystalline cellulose **84,6 % of organic carbon are biobased (calculated)**
All components comply the specification of DIN EN 13432

Advantages of binding agent 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

BioComposites, Sinter- and Carrier material, Textile coating, Suited for compostable one way products
Bio-NFC, cups, trays, plates, decor, sandwiches, textiles
Pellets for fixed bed, consumable bioreactors, sintered core material, thermoplastic NatureFibre-Bio-Prepregs
In pelletized form: Injection moulding or other thermoforming

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

CAPROWAX P™ 6006-C65-NF5740 NF-BioComposite

Application:

Nature-Fibers-Bio-Composites, Dry-Blend-Powder-Coating
Sinter- and Carrier material

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Product Information

06/2021

Polymer and Product Development

Talstrasse 83

D 60437 Frankfurt am Main

Physical Properties

Physical form			Powder, fine grained <800 µm
Cellulose content	%		40
Cellulose particles d50	µm		248
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 free flowing, thermoplastic NF-Bio-Composite-Dry-Blend-Powder

CAPROWAX P™ 6006-C65-NF5740 is a fine-grained dry-blend-mixture of compostable binding agent CAPROWAX P 6006-C65 (intermediate) and 40 % microcrystalline cellulose
86 % of organic carbon are biobased (calculated)
All components comply the specification of DIN EN 13432

Advantages of binding agent 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

BioComposites, Sinter- and Carrier material, Textile coating, Suited for compostable one way products
Bio-NFC, cups, trays, plates, decor, sandwiches, textiles
Pellets for fixed bed, consumable bioreactors, sintered core material, thermoplastic NatureFibre-Bio-Prepregs
In pelletized form: Injection moulding or other thermoforming

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

CAPROWAX P™ 6006-C65-NF5920 NF-BioComposite

Application:

Nature-Fibers-Bio-Composites, Dry-Blend-Powder-Coating
Sinter- and Carrier material

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Product Information

08/2021

Polymer and Product Development

Talstrasse 83

D 60437 Frankfurt am Main

Physical Properties

Physical form			Powder, extra fine-grained <500 µm (98%)
Cellulose content	%		20
Cellulose particles d50	µm		248
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 free flowing, thermoplastic NF-Bio-Composite-Dry-Blend-Powder

CAPROWAX P™ 6006-C65-NF5920 is an extra fine-grained dry-blend-mixture of compostable binding agent CAPROWAX P 6006-C65 (intermediate) and 20 % microcrystalline cellulose **84,6 % of organic carbon are biobased (calculated)**
All components comply the specification of DIN EN 13432

Advantages of binding agent 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

BioComposites, Sinter- and Carrier material, Textile coating, Suited for compostable one way products
Bio-NFC, cups, trays, plates, decor, sandwiches, textiles
Pellets for fixed bed, consumable bioreactors, sintered core material, thermoplastic NatureFibre-Bio-Prepregs
In pelletized form: Injection moulding or other thermoforming

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

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