

CAPROWAX P™ 6006-C65-NF4020 Bio-Dry-Blend-Powder

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

Blumenweg 2

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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 | % | 20 |
| 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

CAPROWAX P™ 6006-C65-NF4020 is a mixture between the binder CAPROWAX P 6006-C65 (intermediate) and 20 % part of readily processable, white cellulose fibres. All organic components are biodegradable

NF-BioComposite

Ø 86%* of organic carbon from biobased resources
Total amount of organic carbon: Ø 67%*

Advantages of basic blend

*) calculated

Dry-Blend-Binder/NF-Fibres comply the specifications of DIN EN 13432

Dry-Blend-Binder CAPROWAX P 6006-C65 is an intermediate manufactured by powdered material, comparable with CAPROWAX P® 6006-00-000 (Testmaterial) compostable according to DIN EN 13432, up to 500 µm, Test certificate No.: P31/029-05, MFPA University Weimar

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, Bio-WPC, trays, plates, decor, sandwiches, fixed bed material for groth, 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