

CAPROWAX P™ 6006-C65-NF4120 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

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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. 486
Content of nature fibres	%	20
Particle nature fibres	µm	<250 (98%)
Residual humidity	%	<5
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-NF4120 is a mixture between the binder CAPROWAX P 6006-C65 (intermediate) and 20 % part of readily processable, resin free wood fibres. All organic components are biodegradable

NF-BioComposite

≈ 84% of organic carbon from biobased resources

Total amount of organic carbon: ≈ 70%

Advantages of basic blend

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, University Weimar

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

No food and feeding stuff Ecofriendly composition

GM-free, no content of starch or PLA
natural, rosinfree wood fibres
natural, related to wood colouration

Applications

Bio-Dry-Blend-Powder for NF-BioComposites, sintered core-material, Bio-NFC and Bio-WPC, trays, plates, decor, sandwiches pellets, 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 Sintering or extrusion

Processable under gentle condition without extrusion
Mixing, 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 80-160 °C.
Other thermoforming methods at 100-160°C as injection moulding or extrusion after thermoplastic agglomeration of powder to pellets

Storage/Instruction

Avoid heat/moisture, storage in original containers only
Do not heat melt above 90°C (194°F) over long time

CAPROWAX P™ NF compostable of course