

# CAPROWAX P™ 6006-C65-NF4120 NF-BioComposite

Application:

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

Customer Information:

Laboratory prototype

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for Customer projects

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Product Information

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## 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  
NF-Bio-Composite  
Bio-Dry-Blend-Powder

CAPROWAX P™ 6006-C65-NF4120 is a mixture between powdered basic components of CAPROWAX P 6006-C65 (intermediate) 20 % part of readily processable, resin free wood fibres.  
≈ 84% of organic carbon are biobased  
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 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  
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