

# CAPROWAX P™ 6006-C65-NF4140 Bio-Dry-Blend-Powder

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

Customer Information:

Laboratory prototype

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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. 265
Tamped density	g/l	ca. 402
Nature fibres content	%	40
Particle nature fibres	µm	<250 (98%)
Residual humidity	%	<6
Softening Temp. DIN EN ISO 11358 °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-NF4140 is a mixture between the binder CAPROWAX P 6006-C65 (intermediate) and 40 % part of readily processable, resin free wood fibres. All organic components are biodegradable

## NF-BioComposite

≈ 85% of organic carbon from biobased resources  
Total amount of organic carbon: ≈ 69%

## Advantages of basic blend

Dry-Blend-Binder CAPROWAX P 6006-C65 is an intermediate manufactured by powdered material, comparable with

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

**CAPROWAX P® 6006-00-000 (Testmaterial)**  
compostable according to DIN EN 13432, up to 500 µm,  
Test certificate No.: P31/029-05, University Weimar

## 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 growth, consumable bioreactors  
Suited for compostable one way products

## Composites with nature fibres

Thermoforming under gentle condition without extrusion  
Mixing/powder rolling, than drying at 70-80°C (158-166°F)  
Compacting/Deaeration at 80°C (176°F)  
Sintering at 90-140°C (194-284°F)  
Grouting at 100-120°C / Cooling down under pressure  
Bio-NFC and Bio-WPC thermoforming at 80-160 °C.  
Other thermoforming methods with pellets at 100-160°C

## 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 natürlich kompostierbar**