

CAPROWAX P™ BioMineralComposites



Product line with natural Biomineral Calcite CAPROWAX P™ 6006-C65-BM42030 / -BM42100 / -BM42150

Description

Compostable, waterproof binder
CAPROWAX P™ 6006-C65:
Test certificate see page 4

CAPROWAX P™ 6006-C65-BM42xxx content 3-15 % harmless, soil-similar, acid-binding, natural Biomineral Calcite consists of aliphatic - biodegradable MARINE, home/industrial compostable - certified polyester and modified, readily biodegradable, renewable, GMO-free plant oil. Products comply the specifications of DIN EN 13432

Injection moulding 0,5-3 mm

Plastification without predrying 130 °C, die 130 °C, mould 15 °C

Blow moulding Wall thickness 1-2 mm

Plastification without predrying 100-130 °C,
parison die 70-100 °C, mould 15 °C

Orientation values Films 0,05-0.2 mm Deep drawing sheets 1-2 mm

Extrusion without predrying 160-130 °C, melting calender <100 °C or slot die <130 °C, cool-/discharge roller 15 °C
Preheating sheets 75-90 °C, mould 15 °C

3D printing with pellets

Extrusion 100-150 °C, die 100-150 °C, cold air cooling 15 °C

Examples of application Suited for compostable and rotten products after use

Products of injection moulding and vacuum forming, sheets, composites, foils, support material, substrate, frisbee disk, cans, plant plug signs, garden decor, soap dish, edge protection trays, wicker ribbons, bark beetle trap, stone dummy.

Order quantities

sample on request, 100 kg minimum order

page 2 of 4

CAPROWAX P™ compostable of course



BioMineralComposite



Coloured stones imitations

Injection moulding



Masterbatches

Thermoforming



Blow moulding

Injection moulding CAPROWAX P™ 6006-C65-BM4225

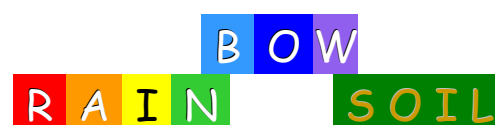
Calcite coloured stones imitations,
garden ornamental gravels,
melting granules

Description	CAPROWAX P™ 6006-C65-BM4225 contents 25 % harmless, soil-similar, acid-binding, natural Biomineral Calcite
Compostable, waterproof binder CAPROWAX P™ 6006-C65: Test certificate see page 4	consists of aliphatic - biodegradable MARINE, home/industrial compostable - certified polyester and modified, readily biodegradable, renewable, GMO-free plant oil. Products comply the specifications of DIN EN 13432
Moulded freely thermo-plasticine !!! Wear protective gloves !!!	Pellets on non-stick panel at 90-100 °C preheating, after cooling down to 70-80 °C shaping/kneading to shapings
Injection moulding of calcite coloured stones imitations	Plastification without predrying 130 °C, die 130 °C, mould 15 °C
Melt granules 1,5-3,5 mm for one-/multilayered pictures !!! Wear protective gloves !!!	In non-stick pans strewing melt granules-pictures free or with templates, after moving templates, melting on a hotplate at 100 °C and cool down to room temperature
Examples of application Suited for compostable and rotten products after use	Calcite coloured stones imitations, deco granules, melting granules garden ornamental gravels, garden decor, letters, substrate Colouration with CAPROWAX P-Masterbatches
Colouration with eco-/soil friendly pigments	Ultramarine, Iron Oxide, Manganviolet, vegetable Carbon Brightening with Kaolin (calcined)
Order quantities	Test material on request, 100 kg minimum order

info(at)polyfea2.de

www.caprowax-p.eu

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Your order of BioMineralComposites

Injection moulding, film:	CAPROWAX P™ 6006-C65-BM42030
Deep drawing, blow moulding, film:	CAPROWAX P™ 6006-C65-BM42100 CAPROWAX P™ 6006-C65-BM42150
Injection moulding, melting granules: coloured stones imitation:	CAPROWAX P™ 6006-C65-BM42025
Test material:	On request
Toll manufacturing:	100 kg minimum order
Miscellaneous:	Product information and MSDS
Market area:	European Union
Order quantities +/- 25 kg	100 kg, 200 kg, 500 kg / batchwise manufactured by toll manufacturer
Prices:	According to offer
Payment condition:	According to offer
Delivery date:	after complete delivery of raw materials to toll manufacturer: 6 - 7 weeks
Miscellaneous:	Product infos and SDS

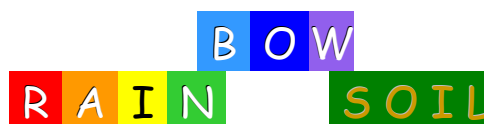
Informations, quote requests and orders at

Albrecht Dinkelaker,
Polymer and Product Development
Talstrasse 83 info@polyfea2.de
D 60437 Frankfurt am Main Fon: ++49 69 76 89 39 10

VAT-No.: DE165 604 009

Banking details/Finance office: On request

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Department: Department of Environment
Head of Department: Prof. Dr.-Ing. J. Londong
Department Manager: Dipl.-Ing. J. Müller

MFA Weimar
Amalienstraße 13
99423 Weimar
Germany
Phone. 03643 / 564 353
Fax. 03643 / 564 201

Test certificate No. P 31/029-05

Order: Test of a biodegradable polymer / wax-compound
CAPROWAX P® 6006-00-000 to German Institute for Standardization
DIN EN 13432 with the proof of the disintegration in a bench-scale test
(A.3), proof of the quality of the composts (8.), including the ecotoxicological
harmless state (A.4)

Customer: POLYFEA Polymer- und Produktentwicklung Albrecht Dinkelaker
Ernst-Wiss-Str. 18
65933 Frankfurt / Main

Order date: 04.11.2004

Test object: CAPROWAX P® 6006-00-000
foil 500 µm / KW 42 / 2004 (foil 1), MFA-No. BAW 4869
CAPROWAX P® 6006-00-000
powder < 750 µm / 06.11.03 MFA-No. BAW 4869

Test condition: Test duration 12 weeks, 1 week at temperature of approximately 65 °C,
11 weeks at temperature of approximately 45 °C

Test criterion: Degradation of the BAW > 90%, ecotoxicological harmless state compared
to compost material, compost quality

Test period: 23.11.04 – 16.02.05

Test results: The examined material samples fulfil the criteria of the disintegration for the
aerobic process of composting. The examined material CAPROWAX P® 6006-
00-000 with a foil strength of 500 µm was degraded with several routine tests in
each case to more than 90% within 12 weeks.
After ending of the test period the measuring results of the compost
corresponded to the usual averages of the RAL quality tests. Significant
differences as a result of BAW addition were not found. The comparison with
the authoritative control samples revealed no higher heavy metal content. At the
end the compost was rotted sufficiently.
A detailed test report to the investigations was given at MFA Weimar
(No. B 31/188-05).

Weimar,
2005-06-02


Prof. Dr.-Ing. J. Bergmann
Scientific Director




Dipl.-Ing. J. Müller
Project Manager

Dieses Prüfzeugnis wurde in 4 Exemplaren ausgefertigt, umfasst 1 Seite und keine Anlage und darf ohne schriftliche Genehmigung der MFA Weimar nicht auszugsweise vervielfältigt werden. Alle Prüfergebnisse beziehen sich ausschließlich auf den im Bericht angegebenen Prüfgegenstand.