

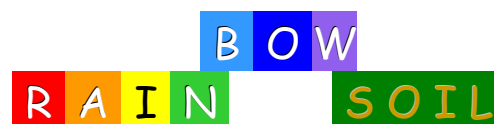
CAPROWAX P™ BioMineralComposites



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

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| <p>Description</p> <p>Compostable, waterproof binder CAPROWAX P™ 6006-C65: Test certificate see page 3</p> | <p>CAPROWAX P™ 6006-C65-BM42xxx content 3-15% harmless, soil-similar, acid-binding, natural Biomineral Calcite and 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</p> |
| <p>Injection moulding 0,5-3mm</p> | <p>Plastification without predrying 130°C, die 130°C, mould 15°C</p> |
| <p>Blow moulding Wall thickness 1-2 mm</p> | <p>Plastification without predrying 100-130°C, parison die 70-100°C, mould 15°C</p> |
| <p>Deep drawing, sheets, foils Orientation values Wall thickness 1-2 mm</p> | <p>Extrusion without predrying 160-130°C, melting calender <100°C or slot die <130°C, cool-/discharge roller 15°C Preheating sheets/foils 75-90°C , mould 15°C</p> |
| <p>3D printing with pellets</p> | <p>Extrusion 100-150°C, die 100-150°C, cold air cooling 15°C</p> |
| <p>Examples of application Suited for compostable and rotten products after use</p> | <p>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.</p> |
| <p>Colouration with eco-/soil friendly pigments</p> | <p>Masterbatches with compostable carrier mmaterial</p> |
| <p>Order quantities</p> | <p>0,3-2 kg sample free, 100 kg minimum order</p> |

CAPROWAX P™ compostable of course



BioMineralComposite

Coloured stones imitations

Injection moulding

Masterbatches

Thermoforming

Blow moulding

Injection moulding CAPROWAX P™ 6006-C65-BM4225

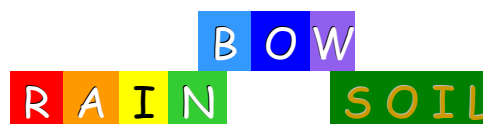
Calcite coloured stones imitations,
garden ornamental gravels,
melting granules

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|--|--|
| Description | CAPROWAX P™ 6006-C65-BM4225 content 25 % harmless, soil-similar, acid-binding, natural Biomineral Calcite and 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 |
| Compostable, waterproof binder CAPROWAX P™ 6006-C65: Test certificate see page 3 | |
| 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 | 5 kg test material, 100 kg minimum order |

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www.caprowax-p.eu

CAPROWAX P™ compostable of course



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

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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), MFPA-No. BAW 4869
CAPROWAX P® 6006-00-000
powder < 750 µm / 06.11.03 MFPA-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 MFPA 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 MFPA Weimar nicht auszugsweise vervielfältigt werden. Alle Prüfergebnisse beziehen sich ausschließlich auf den im Bericht angegebenen Prüfgegenstand.