| Department: | Department of Environment |
|---|---|
| Head of Department: | Prof. Dr.-Ing. J. Londong |
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# Test certificate No. P 31/029-05

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| **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).

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| Weimar, 2005-06-02 | Prof. Dr.-Ing. J. Bergmann Scientific Director | Dipl.-Ing. J. Müller Project Manager |