



Peat fibre reinforced biocomposites

Competitive advantage

- Enhances the bioplastic properties with the help of new fibres, improved polymers and/or new additives
- Peat fibre reinforced biocomposites have lower water absorption compared to other conventional natural fibre composites
- Usage of dry peat also enhances composite strength properties with polymers containing suitable functionality for fibre-matrix coupling

Application and market areas

- For medical purposes (tissue compatibility needed)
- Can be used with fibres like flax, hemp, jute, cellulose (saw dust, cutter chips) or bamboo for various purposes.
- Automotive industry
- Packaging industry
- Construction industry

Technical description

The invention comprises of peat (as a fibrous material), thermoplastic biopolymers and additives. Peat acts as fibrous filler or reinforcement material in composite. Peat based biocomposites are produced by using conventional plastic processing methods like compounding, injection moulding and extrusion. This approach utilizes peat as a new fibre material in biocomposites and it also brings new use for peat as material.

Additional information

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