



PINAPAPER

PRODUCTION OF PAPER FROM
PINEAPPLE LEAVES

(LICENSING : PI 2012 001305 | GRANTED NO : MY-151235-A)

DESCRIPTION

A process for producing a bio-paper comprising the steps of blending a homogeneous mixture of hewed agro based fibers through conventional chemical pulping process and then compression molding the treated agro based fibers to yield the paper sheet.

Needs

- Recyclable, sustainable and renewable.
- Environmentally friendly.
- Economic Agro-Resources (Pineapple leaf from waste resources).
- Decrease global warming problem (Reduces chopping down the trees).

Application

- The raw material used in the development of this bio-paper is an agricultural waste which is fully biodegradable, and available abundantly at low cost.
- In the present invention, the polymeric composition contains a pineapple waste portion which is consumed by microorganism and subsequently left over the synthetic polymer skeleton to be further decomposed by natural element.



Benefits

- Utilisation of agriculture waste into value-added product.
- Better mechanical properties than other cellulose based fibre.
- Substitute for current wood based paper.
- Increase and improve the biodegradability of the polymeric composition.

Targeted Market

- Paper industry
- Box industry
- Craft industry
- Packaging
- Industry
- Agro-based Industry



PROJECT LEADER : Assoc. Prof. Dr. Wan Aizan Wan Abd. Rahman
EMAIL : r-aizan@utm.my | w.aizan@gmail.com