

IP MARKETPLACE

CONNECTING INNOVATION TO YOUR BUSINESS

TECH OFFER

A METHOD FOR PRODUCING DEGRADABLE MULCH FILM



▶ MORE INFORMATION

MEGA-TREND

- Chemicals and Materials
- Environment and Water

TECHNOLOGY READINESS LEVEL (TRL)

- TRL 5 (Lab Prototype – Field Testing)

PATENT/ GRANTED NUMBER

- MY-175704-A

▶ TECHNOLOGY OVERVIEW

The present invention relates to a method for producing degradable mulch film, characterised by the steps of: dissolving poly(vinyl alcohol) in cold water to produce a homogenised solution by constant stirring at 80°C for one hour; preparing a mixture comprising 10 wt% of kenaf fibres and 15 wt% of poly(vinyl alcohol); casting the mixture on a mold and drying at room temperature; and hot-pressing the dried mixture at 120-180°C for 5-10; wherein the hot-pressing is performed under 1 bar pressure to produce a degradable mulch film with a thickness of 1mm.

CONTACT US!

Dr. Lee Ching Shya

UMCIC Business Officer

Email: leecs@um.edu.my

Phone: +603 – 7967 7351 / 7352