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A BIOPOLYMER-BASED NANOCOMPOSITE FILM



▶ MORE INFORMATION

MEGA-TREND

- Chemicals and Materials
- Environment and Water

TECHNOLOGY READINESS LEVEL (TRL)

- TRL 4 (Lab Prototype - Lab Testing)

PATENT/ GRANTED NUMBER

- PI 2019000554

▶ TECHNOLOGY OVERVIEW

The present invention relates to a composition for use in packaging. More particularly, the present invention relates to a biopolymer-based nanocomposite, an article of manufacture and a method of production thereof. The biopolymer-based nanocomposite comprises a nanocellulose and a polyvinyl alcohol, wherein an anionic surfactant is used in dispersion of the nanocellulose in the polyvinyl alcohol's matrix. The biopolymer-based nanocomposite has excellent mechanical properties, reinforcing capability, low weight and biodegradable.

CONTACT US!

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