INN PRESSME
Open Innovation Test Bed

Bio- and Fibre-Based Stand-Up Pouch

All test cases
inn-pressme.eu / test-case

Starting Point

Production of stand-up pouches using biological nanofibres. The aim is to replace all fossil materials in the packaging & produce it in such a way that it can be easily make them recyclable.

INN-PRESSME Solution

Ensure production safety & requirements of industrial production sizes for thin-film coating processes for packaging

Achievements

- Low coat weight & coating thickness
- Promising barrier properties
- Excellent grease & mineral oil barrier
- Good heat-sealing properties

Pilot Lines Support

Multilayer coating done on two different base papers using:

- Crosslinkable PLA-based aqueous dispersion (PLA-X)
- Cellulose nanocrystals (CNC)
- Biodegradable inorganic nanoparticles stabilised by biopolymers (bioORMOCER®)

Lead Partner

VTT, walki

Involved Partners

Fraunhofer ICT, RISE, VTT

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°952972