

Project title: Development of agricultural nets with integrated repulsive substances for the repulsion of pest insects

Partner: Tecnar GmbH, Ilsfeld (DE);
MDB Textinov, Saint-Didier-de-la-Tour (FR)

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Mission Statement

In this project, an insect protection net for biological protection against insect pests in fruit cultivation is developed. Here, agricultural nets are currently used to protect large areas from damage caused by pests. In order not to reduce the function of these nets even in the event of damage, filaments are being developed which release repulsive substances (odorous substances) to ward off insects.

Project content:

In the project, blends based on PLA and various other biodegradable polymers are investigated. The blends are compounded with odorous substances to ward off insects. Filaments are then produced from the compounds. The resistance of the filaments to weathering is investigated. These tests take place in the laboratory and in the field. Furthermore, the repulsive effect of the odorants in the filaments on various insects is investigated in the laboratory. Finally, a large-area demonstrator net is produced from the most suitable filaments in order to validate the functions.

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