



Breathable Biodegradable Bag for Fruit

PACKAGING WITH ADJUSTED GAS TRANSMISSION

KEY WORDS

BIODEGRADABLE
PACKAGING, FRESH
FRUIT, GAS CONTROL

DESCRIPTION

Partially biodegradable and breathable bag for preserving and exporting fresh fruits, developed with Agrobol S.A. and Universidad Nacional de Colombia. Its polymer blend and microperforations control gas transmission, reducing metabolism and microbial activity. It extends refrigerated fruit shelf life (6–8 °C) for 40–60 days.

POTENTIAL BENEFITS OR IMPACTS

- Reduces postharvest losses.
- Supports Colombian fruit exports.
- Promotes sector sustainability.
- Replaces conventional plastics.

TECHNOLOGY MATURITY LEVEL (TRL)

TRL 7: Demonstration in an operational environment.

AREA OF APPLICATION

- Plastics
- Food
- Agroindustry

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