PRODUCT SPECIFICATION · LIFEPACK MAP BAG

Plantain

Musa spp. (AAB / ABB groups)

PRODUCT DETAILS

Product	Lifepack MA-MH (Modified Atmosphere / Modified Humidity) plantain MAP bag. MAP maintains high humidity and slows the ripening process, thus keeping the product fresher and firmer for longer.
Produce type	Climacteric fruit, harvested mature-green; typically marketed and sold unripe
Ethylene	Production High (once ripening begins) · sensitivity High (UC Davis Postharvest)
Suitable for	Organic & conventional plantain (inert film — no organic certification needed)
Background	Plantain is usually shipped and sold green, and any premature yellowing within a green load must be sorted out before it triggers ripening in surrounding fruit. Where a ripened product is required, plantain is ripened together with bananas under controlled ethylene exposure.

PERFORMANCE & BENEFITS

Shelf life – cold chain	Up to 6 weeks (green) at 10 °C
Shelf life – ambient	7–10 days once ripening begins
Recommended atmosphere	O_2 2–5% · CO_2 2–5% · RH 90–95% General postharvest guidelines (UC Davis Postharvest); vary by cultivar, maturity & region.
LIFEPACK MAP BAG KEY BENEFITS	• Extended green shelf life for longer storage and distribution • Reduced handling and sorting costs from premature yellowing • Reduced dehydration and shrivelling • Individual pallets removable without disturbing CA • Maintained peel colour and firmness • Maintained freshness once ripening begins • Inhibition of storage mould and rots • Higher profitability due to reduced wastage

MATERIAL, FILM & COMPLIANCE

Film structure	Coextruded multilayer film — polyamide (Nylon-6, CAS 25038-54-4) and polyethylene / copolymer (CAS 9002-88-4)
Thickness / WVTR	22 microns · water vapour transmission (WVTR) 7–9 g/m^2/day
Properties	Transparent film; melting point 104–115 °C; density 0.918–0.923 g/cm^3; insoluble in water; stable
Food-contact compliance	FDA 21 CFR 177.1500 & 177.1520; EU 10/2011 and migration limits (EU) 1183/2012
Food safety	Manufactured under FSSC 22000 / ISO 22000 — current certificates on request

AVAILABLE SIZES

Formats	Lifepack MAP bags available to fit standard 2, 5 and 10 kg cartons. Custom sizes on request.

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