

PRODUCT SPECIFICATION · LIFEPAK MAP BAG

Apple

Malus domestica



PRODUCT DETAILS

Product	Lifepack MA-MH (Modified Atmosphere / Modified Humidity) apple MAP bag. MAP maintains high humidity and prolongs the ripening process, thus keeping the product fresher and firmer for longer.
Produce type	Climacteric pome fruit, harvested semi-ripe; traditionally CA-stored
Ethylene	Production Very high · sensitivity High (UC Davis Postharvest)
Suitable for	Organic & conventional apple (inert film — no organic certification needed)
Background	Apple maturity is judged by starch conversion, firmness and background colour; fruit is picked firm for long-term holding. Over months of storage the main quality risks are bitter pit, superficial scald and moisture loss.

PERFORMANCE & BENEFITS

Shelf life – cold chain	6–12 months at 0–1 °C (32–34 °F)
Shelf life – ambient	7–10 days at ambient
Recommended atmosphere	O ₂ 1–3% · CO ₂ 1–3% · RH 90–95% General postharvest guidelines (UC Davis Postharvest; Singla et al., 2022); vary by cultivar, maturity & region.
LIFEPAK MAP BAG KEY BENEFITS	• Extended shelf life for longer storage and distribution • Inhibition of the ripening process • Individual pallets removable without disturbing CA • Reduced dehydration and shrivelling • Inhibition of bitter pit and storage scald • Maintained colour and acidity • Maintained freshness and firmness • 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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