

PRODUCT SPECIFICATION · LIFEPAK MAP BAG

Grapefruit

Citrus paradisi



PRODUCT DETAILS

Product	Lifepack MA-MH (Modified Atmosphere / Modified Humidity) grapefruit MAP bag. MAP maintains high humidity and prolongs senescence, thus keeping the product fresher and firmer for longer.
Produce type	Non-climacteric citrus, harvested fully ripe; sensitive to colour change from ethylene
Ethylene	Production Low · sensitivity Moderate (triggers de-greening only — UC Davis Postharvest)
Suitable for	Organic & conventional grapefruit (inert film — no organic certification needed)
Background	Grapefruit is non-climacteric and harvested at full ripeness based on colour and brix. Ethylene is sometimes used to de-green early-season fruit, but over-exposure causes softening and flesh breakdown. The main storage risks are moisture loss, chilling injury and decay.

PERFORMANCE & BENEFITS

Shelf life – cold chain	6–10 weeks at 8–10 °C
Shelf life – ambient	7–10 days at ambient
Recommended atmosphere	O ₂ 3–10% · CO ₂ 5–10% · RH 90–95% General postharvest guidelines (UC Davis Postharvest); vary by cultivar, maturity & region.
LIFEPAK MAP BAG KEY BENEFITS	• Extended shelf life for longer storage and distribution • Reduced dehydration, shrivelling and dry peel • Individual pallets removable without disturbing CA • Slowing of peel senescence • Maintained peel colour and firmness • Maintained juice content and flavour • 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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