

PRODUCT SPECIFICATION · LIFEPAK MAP BAG

Spinach

Spinacia oleracea



PRODUCT DETAILS

Product	Lifepack MA-MH (Modified Atmosphere / Modified Humidity) spinach MAP bag. MAP maintains high humidity and prolongs senescence, thus keeping the product fresher and firmer for longer.
Produce type	Leafy vegetable, harvested as loose leaves or bunched; low thermal mass, highly perishable
Ethylene	Production None · sensitivity High (general postharvest guidelines)
Suitable for	Organic & conventional spinach (inert film — no organic certification needed)
Background	Spinach is harvested young to mid-mature, as older leaves toughen and begin to yellow. It produces little ethylene of its own but is highly sensitive to it, so control is essential; its low thermal mass and large leaf area also make it highly prone to wilting and moisture loss.

PERFORMANCE & BENEFITS

Shelf life – cold chain	2–3 weeks at 0 °C
Shelf life – ambient	5–7 days at 10 °C
Recommended atmosphere	O ₂ 1–3% · CO ₂ 5–10% · RH 95–100% General postharvest guidelines (leafy vegetables); vary by cultivar, maturity & region.
LIFEPAK MAP BAG KEY BENEFITS	• Extended shelf life for longer storage and distribution • Reduced dehydration and withered leaves • Inhibition of chilling injury and water-soaking • Inhibition of yellowing of leaves • Maintained colour and firmness • Maintained freshness and crispness • 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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