

PRODUCT SPECIFICATION · LIFEPACK MAP BAG

Carrot

Daucus carota



PRODUCT DETAILS

Product	Lifepack MA-MH (Modified Atmosphere / Modified Humidity) carrot MAP bag. MAP maintains high humidity and prolongs senescence, thus keeping the product fresher and firmer for longer.
Produce type	Root vegetable; moisture loss varies with size
Ethylene	Production Very low · sensitivity High (UC Davis Postharvest)
Suitable for	Organic & conventional carrot (inert film — no organic certification needed)
Background	Carrot is mechanically harvested on size and length, with or without tops. Surface area drives moisture loss, so baby and cylindrical carrots are more perishable than large, conical ones; root tips and leafy tops are particularly exposed. For long-term storage, good air circulation avoids excessive CO ₂ build-up.

PERFORMANCE & BENEFITS

Shelf life – cold chain	6–7 weeks at 0 °C (32 °F)
Shelf life – ambient	5–7 days at ambient
Recommended atmosphere	O ₂ 1–5% · CO ₂ 3–4% · RH 95–100% General postharvest guidelines (UC Davis Postharvest; Singla et al., 2022); vary by cultivar, maturity & region.
LIFEPACK MAP BAG KEY BENEFITS	• Extended shelf life for longer storage and distribution • Reduced dehydration and shrivelling • Inhibition of regrowth, shoots and rootlets • Maintained fresh, green tops • Inhibition of top yellowing and carotene loss • Prolonging senescence • 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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