

PRODUCT SPECIFICATION · LIFEPAK MAP BAG

Broccoli

Brassica oleracea



PRODUCT DETAILS

Product	Lifepack MA-MH (Modified Atmosphere / Modified Humidity) broccoli MAP bag. MAP maintains high humidity and prolongs senescence, thus keeping the product fresher and firmer for longer.
Produce type	Vegetable (florets); ethylene-sensitive; highly perishable
Ethylene	Production Very low · sensitivity High (UC Davis Postharvest)
Suitable for	Organic & conventional broccoli (inert film — no organic certification needed)
Background	Broccoli is harvested with the head tight and florets closed and is highly perishable, with a large surface area that loses water quickly. The main risks are yellowing, off-odours and decay.

PERFORMANCE & BENEFITS

Shelf life – cold chain	4–6 weeks at 0 °C (shipping & storage)	
Shelf life – ambient	5–7 days at 10 °C	
Recommended atmosphere	O ₂ 2–3% · CO ₂ 5–10% · RH 95–100% 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 • Reduced dehydration and weight loss • Maintained fresh, green florets and stems • Prevention of off-flavours • Inhibition of flowering (yellowing)	• 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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