

PRODUCT SPECIFICATION · LIFEPACK MAP BAG

Corn-on-the-cob

Zea mays



PRODUCT DETAILS

Product	Lifepack MA-MH (Modified Atmosphere / Modified Humidity) corn-on-the-cob MAP bag. MAP maintains high humidity and prolongs senescence, thus keeping the product fresher and firmer for longer.
Produce type	Sweet corn, harvested immature with milky kernels; large surface area, highly perishable
Ethylene	Production Low · sensitivity Low (published postharvest data)
Suitable for	Organic & conventional corn-on-the-cob (inert film — no organic certification needed)
Background	Sweet corn is picked while the kernels are still immature and milky and the husk is tight and green. Sugars convert rapidly to starch after harvest, so fast cooling and moisture retention are critical to preserve sweetness and quality.

PERFORMANCE & BENEFITS

Shelf life – cold chain	3–4 weeks at 0–2 °C
Shelf life – ambient	5–7 days at 10 °C
Recommended atmosphere	O ₂ 3–5% · CO ₂ 10% · RH 95–100% General postharvest guidelines (published research); vary by cultivar, maturity & region.
LIFEPACK MAP BAG KEY BENEFITS	• Extended shelf life for longer storage and distribution • Reduced dehydration of husk leaves and kernels • Inhibition of yellowing of husk and stalks • Prolonging freshness after harvest • Maintained sweetness and kernel moisture • 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.

Legal disclaimer: Lifepack SA has no control over the farming, handling, storage or transport of produce packed in LIFEPACK modified atmosphere packaging (MAP) and gives no express or implied guarantee and accepts no liability. Full disclaimer: <https://www.lifepacksa.co.za/legal-disclaimer/>

