

LifeSpan[®] for Pomegranates



LifeSpan[®] Modified Atmosphere Packaging (MAP)

LifeSpan[®] box liners and pallet shrouds are an innovation in post-harvest packaging that extend the storage and marketing life of fresh produce. Used commercially for over 15 years, LifeSpan[®] is a global leader in MAP products and is now an important packaging component for many of the worlds leading fresh produce exporters.

LifeSpan[®] for Pomegranates

Arcor LifeSpan[®] has developed a range of modified atmosphere packaging products which are commercially available for preserving pomegranate quality during export shipment and for extending storage. LifeSpan[®] for Pomegranates is available in the following product formats:

- Pallet shrouds
- Box liners
- Retail bin liners (140kg/300lb)
- Macro bin liners (400kg/900lb)

LifeSpan[®] performance may vary with variety, please check with your LifeSpan[®] representative to confirm variety appropriateness.

How it works

LifeSpan[®] MAP Packaging allows the creation of a low oxygen (O₂), high carbon dioxide (CO₂) and, high humidity atmosphere inside a liner.

The oxygen and carbon dioxide permeability of LifeSpan[®] Pomegranate products is specifically designed for the respiration rate of Pomegranates. The modified atmosphere created will significantly reduce the respiration rate of the fruit with the following benefits.

Summary of benefits:

Pomegranates packaged in LifeSpan[®] offer the following benefits:

- Control of superficial mould growth in crowns and on the body of the fruit
- Maintenance of flesh integrity

LifeSpan[®]
Modified Atmosphere Packaging



Contacts

For more information, visit www.amcor.com/lifespan or email lifespan@amcor.com

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- Moisture retention and maintenance of fruit firmness (a recent trial with the “Aco” variety showed that moisture loss with LifeSpan[®] was <5% compared to moisture loss with naked fruit being 10-12%)
- Maintain “harvest fresh” flavour and texture
- Suppress development of skin blemishes

Pomegranate storage; Key Issues:

The main problems associated with prolonged storage of pomegranates are; weight loss/shrivel, external mould in crowns and on the fruit, decay development, appearance of skin blemishes eg scald, impaired quality and taste. LifeSpan[®] modified atmosphere packaging will alleviate these problems and maintain fruit quality for up to 3 months.

The LifeSpan[®] product range utilises moisture release technology that eliminates excessive condensation minimising mould growth, while at the same time maintaining a relative humidity that ensures the fruit remains firm throughout the duration of storage.

It has been shown that storing pomegranates in air (below 10°C / 50°F) immediately after harvest for a number of days prior to packing into LifeSpan[®] macro bin liners or pallet shrouds, will reduce condensation build up even further whilst still retaining an acceptable firmness at the end of the storage.

Pomegranate taste and skin colour are maintained in LifeSpan[®] throughout the storage period with skin blemishing significantly reduced. Pomegranates have the

propensity to crack when stored in air due to fluctuating environmental conditions when growing. (irregular water availability and extreme temperature swings) Storage in LifeSpan[®] will significantly reduce the incidence of cracking.

Packing and storage temperature:

When storing pomegranates in LifeSpan[®], pre-cool fruit to below 10°C / 50°F prior to sealing carton or bin liners or applying the pallet shroud. Packing pomegranates in LifeSpan[®] without adequate pre-cooling may cause heat build up and condensation to occur. The recommended storage temperature for pomegranates in cool storage is between 6°C / 43°F and 9°C / 48°F. If liners or shrouds are removed from cool storage for any extended period of time, they must be opened.

How LifeSpan[®] can add value to Pomegranates:

- Increases storage time offering a longer market season
- Offers some protection against anomalies in environmental conditions eg. Pomegranates subject to severe environmental changes may have the propensity to crack over time, storage in LifeSpan[®] can offer some protection against this
- Maintains quality and sales value through the distribution chain
- Varied packaging options to suit pack house procedures and packaging formats

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