Supply Chain Success: Packaging

MODIFIED ATMOSPHERE (MA) LINERS

MA liners are now the recommended liner for summer fruit, particularly when considering long-term storage or sea freight export. As opposed to the traditional perforated high humidity liner, they reduce O₂ and increase CO₂ levels around the fruit. BENEFITS

Has potential to increase storage period by one to three weeks Perforated high humidity liner 'September Bright' 100 Reduced rate of flesh softening while in Incidence of severe flesh browning (%) nectarine Modified atmosphere liner 90 long-term storage or sea freighting 80 Due to better storage life, likely 70 reduction in storage disorders such as 60 flesh browning and mealiness 50 40 Suitable for White & Yellow Nectarine, 30 White & Yellow Peach and Plum 20 varieties 10 0 Storage for 42 days at 2 °C and 4 days at 18 °C **CONSIDERATIONS** MA liner oxygen or carbon dioxide concentration (%) erforated high humidity To achieve best outcomes for all fruit 20 storage (including using MA liners), fruit Life Pac 15 must be harvested at correct maturity Oxygen (O_2) and stored using appropriate cool 10 storage protocols To be effective, MA liners must be Carbon sealed effectively and therefore cannot (CO2) be used in conjunction with methyl 10 15 20 25 35 bromide fumigation Storage duration at 2 °C (days)

• Can be used with irradiation treatments

Hort Innovation

For further information visit the Horticulture Industry Networks site: <u>https://hin.com.au/networks/profitable-stonefruit-research</u> Disclaimer: This publication may be of assistance to you but the State of Victoria, its employees and Summerfruit Australia do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. While every effort has been made to ensure the currency, accuracy or completeness of the content we endeavour to keep the content relevant and up to date and reserve the right to make changes as require. The Victorian Government, authors and presenters do not accept any liability to any person for the information (or the use of the information) which is provided.

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