



Palmart Collapsible Pallet Bin



ENTRANT

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CATEGORIES ENTERED

Environmental Impact



Innovation in Design



Packaging Systems



Plastic Packaging



SPECIAL FEATURES



The PALMART bin design:

- Longevity of product life
- Max use of product space when operational
- Max possible compression ratio when collapsed
- Interlocking and stacking abilities
- Minimum raw material used
- Manufacturing process - decrease cycle times and energy use
- Maximum recyclability



The 3D modelling software design process' environmental benefit saw the reduction in numbers of non-recyclable prototype items and reduction in mould manufacturing costs as could use high speed CNC milling processes to produce tools.

Manufacturing saw decreased energy consumption due to faster cycle times



Design allows product to be reduced in a non operational state to less and 1/3 original size.



Zero waste manufacturing due to 100% recycling of trimmings and mis-mouldings at time of manufacture.



Raw material reduced due to "kiss offs" and "ribbing".

Moulded-in branding eliminating toxic paints.



Reduced fuel consumption due to ability to transport greater numbers. Stacking 3 high, optimising truck deck space.



Reduced carbon emissions from fork hoists /freight handling devices due to RFID tags - more efficient freight processing data.