

Initiative of



Knowledge Partner



भारतीय पैकेजिंग संस्थान  
Indian Institute of Packaging

PACKAGING SPECIFICATIONS  
FOR EXPORTS

# GRAPES

*(Vitis vinifera)*



# GRAPES

DIRECT BULK PACK

## Corrugated Fibreboard Box

Capacity : 1 Kg

### A. Minimum Specifications

Material of Construction*	Corrugated Fibre Board	Corrugated Fibre Board	Corrugated Fibre Board	Corrugated Fibre Board
External Dimensions (mm)	200 x 200 x 75	200 x 200 x 75	200 x 200 x 75	200 x 200 x 75
Style of Box**	RSC - 0201	Telescopic - 0300	Telescopic - 0306	Telescopic - 0312
No. of Plies	3.0	Lid - 3 Tray - 3	Lid - 3 Tray - 3	Lid - 3 Tray - 3
Type of Flutes	B (Narrow)	Lid B (Narrow) Tray B (Narrow)	Lid B (Narrow) Tray B (Narrow)	Lid B (Narrow) Tray B (Narrow)
Direction of Flutes	Vertical	Vertical	Vertical	Vertical
Grammage (g/m <sup>2</sup> ) Outer to Inner (Indicative)	250/150/150	Lid : 250/150/150 Tray : 250/150/150	Lid : 250/150/150 Tray : 250/150/150	Lid : 250/150/150 Tray : 250/150/150
Burst Factor of Paper (Kraft) (Minimum)	20.0	20.0	20.0	20.0
Bursting Strength of Board (Kg/cm <sup>2</sup> ) (Minimum)	11.0	Lid : 11.0 Tray : 11.0	Lid : 11.0 Tray : 11.0	Lid : 11.0 Tray : 11.0
No. of Pieces per Box	Not more than two	Not more than two	Not more than two	Not more than two
Manufacturer's Joint	By gluing	By gluing	By gluing	By gluing
Compression Strength of Box (Kgf) (Minimum)	350	350	350	350
COBB (30 Minutes)*** (g/m <sup>2</sup> ) (Maximum)	60	60	60	60
No. of Ventilation Holes	16.0	16.0	16.0	16.0
Diameter (mm) and Position of Holes	20.0	20.0	20.0	20.0
Two Sides Each	3	3	3	3
Two Ends Each	1	1	1	1
Top & Bottom Each	4	4	4	4
<b>B. Recommended Specifications</b>				
Edge Crush (Kgf) (Minimum)	33.00	33.00	33.00	33.00

\*Outer ply of white duplex board or bleached kraft

\*\*Or any other suitable style which provides equal strength and performance

\*\*\*Outer ply to be laminated or coated for water proofing

- Note:
- Dimensions of the box are modular to Euro pallets. However, any other dimensions or box styles to suit importers requirements could also be used.
  - Grammage mentioned is indicative. However, any other grammage which provides equal strength and performance can be used.
  - Diameter and no. of holes should be 20mm and 16 nos. respectively. However, sufficient ventilation depending upon the box style could also be used.



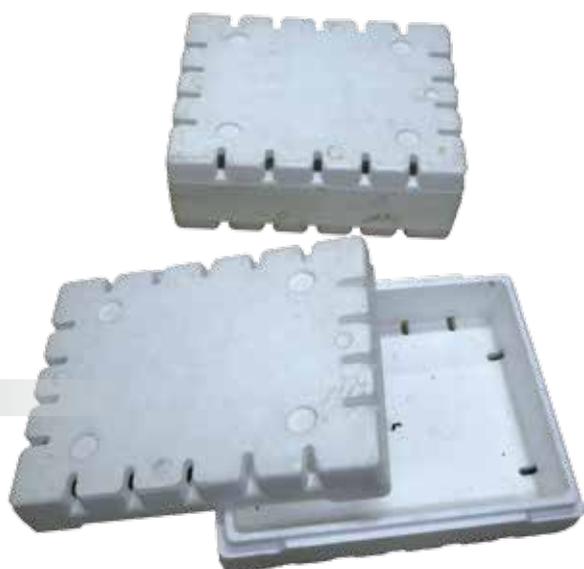
## Expanded Polystyrene Box

Capacity: 4.5/5 Kg & 9 kg

Material of Construction	Expanded Polystyrene
External Dimensions (mm)	
• 4.5/ 5 kg	390 x 320 x 155
• 9 kg	500 x 390 x 180
Style of Box*	Lid & Tray
Density of EPS (Kg / m <sup>3</sup> ) (Minimum)	18.00
No. of Pieces per Box	Not more than two
Compression Strength (Kgf) (Minimum)	300.00
No. of Ventilation Holes	16.00
Diameter (mm) & Position of Holes	20.00
Two Sides Each	3
Two Ends Each	1
Top & Bottom Each	4
or Equivalent Ventilation	

\*Or any other suitable style with equal strength and performance

- Note:
- Dimensions of the box are modular to Euro pallets. However, any other dimensions or box styles to suit importers requirements could also be used.
  - Diameter and no. of holes should be 20mm and 16 nos. respectively. However, sufficient ventilation depending upon the box style could also be used.



**BULK PACK**

# GRAPES

CONSUMER PACKS / TRANSPORT PACK FOR CONSUMER PACKS

## Dimensions for Consumer Packs

Capacity : 500 grams

Punnet Size	
Tray (L x W x H mm)	190 x 115 x 80
LID (L x W x H mm)	To fit the tray x To fit the tray x 15

## Specifications for Consumer Packs

### Type of Consumer Pack : Plastic Punnet With Lid

Capacity : 500 grams

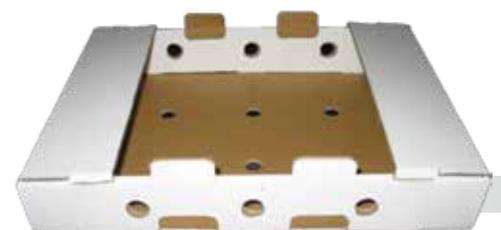
Material: Food grade PET (Polyethylene Terephthalate)

Note: The lid should sit firmly on the tray and should be lockable type.



## Specifications for Transport Pack for Consumer Packs

Type of Consumer Pack:	Plastic Punnet With Lid
Material of Construction*	Corrugated Fibre Board
External Dimensions (mm)	620 x 410 x 95
Style of Box**	One piece tuck-in-type
No. of Plies	3.0
Type of Flutes	B (Narrow)
Direction of Flutes	Vertical
Grammage (g/m <sup>2</sup> ) Outer to Inner (Indicative)	250 / 150 / 150
Burst Factor of Paper (Kraft) (Minimum)	20.0
Bursting Strength of Board (Kg/cm <sup>2</sup> ) (Minimum)	11.0
No. of Pieces per Box	One
Manufacture's Joint	By gluing
Edge Crush (Kgf) (Minimum)	25.00
Compression Strength of Box (Kgf) (Minimum)	350
COBB (30 Minutes)*** (g/m <sup>2</sup> ) (Maximum)	60
No. of Ventilation Holes	16.00
Diameter (mm) & Position of Holes	20.00
Two Sides Each	3
Two Ends Each	1
Top & Bottom Each	4
or	Equivalent Ventilation



- Note:
- Dimensions of the box are modular to Euro pallets. However, any other dimensions or box styles to suit importers requirements could also be used.
  - Grammage mentioned is indicative. However, any other grammage which provides equal strength and performance can be used.
  - Diameter and no. of holes should be 20mm and 16 nos. respectively. However, sufficient ventilation depending upon the box style could also be used.

\*Outer ply of white duplex board or bleached kraft

\*\*Or any other suitable style which provides equal strength and performance

\*\*\*Outer ply to be laminated or coated for water proofing

## Specification Details for Reinforcement Material

### Pressure Sensitive Tape

- Material of Construction BOPP or PVC  
(Biaxally Oriented Polypropylene or Poly Vinyl Chloride)
- Thickness 20  $\mu$
- Width (Minimum) 50 mm
- Adhesive Property As per IS:3676-1986

*For further specification details refer IS:2880-1978*

### Reinforcement Strap

- Material of Construction PP (Polypropylene)
- Width (Minimum) 12 mm
- Thickness (Minimum) 0.05 mm
- Breaking Load (Minimum) 80 Kg / 12 mm width
- Elongation (Maximum) 25%



## APEDA and IIP: A Joint Initiative

Packaging is a co-ordinated system of preparing goods for transport, distribution, storage, retailing and end use.

The need for quality packaging for distribution and marketing of food products can hardly be over emphasised. With the thrust on promotion of exports, it is imperative that adequate attention be paid to packaging and logistics.

A comprehensive set of specifications for packaging of fresh fruits and vegetables is essential to help farm producers to effectively market their produce in a safe and cost-effective manner - in the domestic as well as export markets.

The Agricultural and Processed Food Products Export Development Authority (APEDA) and the Indian Institute of Packaging (IIP), have made efforts in the direction of developing packaging standards for fresh fruits, vegetables and as per the international requirements.

The packaging standards drawn up by the IIP would immensely help the exporters in procuring quality packaging materials and ensuring safe delivery of the produce to the destination markets.