

BANANA / ORANGE

DIRECT BULK PACK

BANANA

Corrugated Fibreboard Box Capacity : 5 Kg				
A. Minimum Specifications				
Material of Construction*	Corrugated Fibre Board	Corrugated Fibre Corrugated Fibre Board		Corrugated Fibre Board
External Dimensions (mm)	333 x 300 x 200	333 x 300 x 200	333 x 300 x 200	333 x 300 x 200
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/m²) Outer to Inner (Indicative)	250 / 150 / 150	Lid : 250/150/150 Tray : 150/150/150	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/cm²) (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/m²) (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. Recommended Specification	ons			
Edge Crush (Kgf) (Minimum)	43.00	43.00	43.00	43.00

^{*}Outer ply of white duplex board or bleached kraft

- 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.



^{**}Or any other suitable style which provides equal strength and performance

^{***}Outer ply to be laminated or coated for water proofing



BANANA

Corrugated Fibreboard Box Capacity: 7 Kg				
A. Minimum Specifications				
Material of Construction*	Corrugated Fibre Board	Corrugated Fibre Corrugated Fibre Board Board		Corrugated Fibre Board
External Dimensions (mm)	333 x 390 x 250	333 x 390 x 250	333 x 390 x 250	333 x 390 x 250
Style of Box**	RSC - 0201	Telescopic - 0300	Telescopic - 0306	Telescopic - 0312
No. of Plies	5.0	Lid - 3 Tray - 3	Lid - 3 Tray - 3	Lid - 3 Tray - 5
Type of Flutes	B / B (Narrow)	Lid B (Narrow) Tray B (Narrow)	Lid B (Narrow) Tray B (Narrow)	Lid B (Narrow) Tray B / B (Narrow)
Direction of Flutes	Vertical	Vertical	Vertical	Vertical
Grammage (g/m²) Outer to Inner (Indicative)	250 / 120 / 120 / 120 / 120	Lid : 250/150/150 Tray : 250/150/150	Lid : 250/150/150 Tray : 250/150/150	Lid : 250/150/150 Tray : 250/120/120/ 120 / 120
Burst Factor of Paper (Kraft) (Minimum)	20.0	20.0	20.0	20.0
Bursting Strength of Board (Kg/cm²) (Minimum)	14.0	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)	450	450	450	450
COBB (30 Minutes)*** (g/m²) (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. Recommended Specification	ons			
Edge Crush (Kgf) (Minimum)	34.00	43.00	43.00	43.00

^{*}Outer ply of white duplex board or bleached kraft

- 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.

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BANANA Capacity: 13Kg/18kg

A. Corrugated Fibreboard Box A. Minimum Specifications Material of Construction* Corrugated Fibre Board External Dimensions (mm) 13 Kg 545 x 330 x 255 18 Kg 750 x 300 x 200 Style of Box** **TELESCOPIC** No. of Plies Lid: 3 Tray: 5 Type of Flutes Lid: B (Narrow) Tray: B/B (Narrow/ Narrow) Direction of Flutes Vertical Grammage (g/m²) Lid: 250 / 150 / 150 Tray: 250 / 120 / 120 / 120 / 120 Burst Factor of Paper 20.00 (Kraft) (Minimum) Bursting Strength of Board Lid: 11.0 Tray: 14.0 (Kg/cm²) (Minimum) No. of Pieces per Box Not more than two Manufacturer's Joint By gluing Compression Strength of 500 Box (Kgf) (Minimum) COBB (30 Minutes)*** 60 (g/m²) (Maximum) No. of Ventilation Holes 16.0 Diameter (mm) and Position 20.0 of Holes Two Sides Each 3 Two Ends Each 1 Top & Bottom Each 4 One slot on each of the ends of the box **B.** Recommended Specifications

*Outer ply of white duplex board or bleached kraft

Edge Crush (Kgf) (Minimum)

Lid: 37.00 / Tray: 38.00

- 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.

B. Specifications of Bag		
Material of Construction*	High Molecular High Density Polyethylene (HMHDPE)	
Weight of the Bag (gms)	30	
Thickness (gauge)	100	
Total Height of the Bag (mm)	810	
Height of the Bag upto Seal (mm)	780	
Length of the Bag (mm)	570	
Total width of the Gusset (mm)	270	
Perforations	Distance between two pinhole perforations should not be more than 25mm.	

C. Ethylene Absorber Sachet			
Material	Granules of mixture of potassium permagnate and clay packed in sachets. However, any sachet containing similar material and giving the same performance can also be used.		
Weight of Material Inside the Sachet (gms) (max)	7gms		
Dimension of Sachet (mm)	70 x 70		

D. Specifications of Bu	bble Film
Diameter of Bubble (mm)	10

^{**}Or any other suitable style which provides equal strength and performance

^{***}Outer ply to be laminated or coated for water proofing



ORANGES Capacity: 15kg

A. Corrugated Fibreboard Box		
A. Minimum Specifications		
Material of Construction*	Corrugated Fibre Board	
External Dimensions (mm)	520 x 315 x 300	
Style of Box**	TELESCOPIC - 0320	
No. of Plies	3.0	
Type of Flutes	B (Narrow)	
Direction of Flutes	Vertical	
Grammage (g/m²) Outer to Inner (Indicative)	250 / 150 / 150	
Burst Factor of Paper (Kraft) (Minimum)	25.00	
Bursting Strength of Board (Kg/cm²) (Minimum)	12.00	
No. of Pieces per Box	Not more than two	
Manufacturer's Joint	By gluing	
Compression Strength of Box (Kgf) (Minimum)	500	
COBB (30 Minutes)*** (g/m²) (Maximum)	60	
No. of Ventilation Holes	16.0	
Diameter (mm) and Position of Holes	20.0	
Two Sides Each	3	
Two Ends Each	1	
Top & Bottom Each	4	
	One slot on each of the ends of the box	
B. Recommended Specificati	ons	
Edge Crush (Kgf) (Minimum)	66.00	

*Outer of	y of white	dunlex	board or	bleached	kraft
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^{**}Or any other suitable style which provides equal strength and performance

- 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.

B. Partitions and Separator Plates		
Material of Construction*	Corrugated Fibre Board	
No. of Plies	3	
Type of Flutes	B (Narrow)	
Grammage (g/m²)	150 / 150 / 150	
Burst Strength (Kg/cm²) (Minimum)	5.00	

^{***}Outer ply to be laminated or coated for water proofing

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Specification Details for Reinforcement Material

Pressure Sensitive Tape

Material of Construction

BOPP or PVC

(Biaxally Oriented Polypropylene

or Poly Vinyl Chloride)

Thickness

 20μ

• Width (Minimum)

50 mm

Adhesive Property

As per IS:3676-1986

PP (Polypropylene)

For further specification details refer IS:2880-1978

Reinforcement Strap

Material of Construction

.

• Width (Minimum)

12 mm

• Thickness (Minimum)

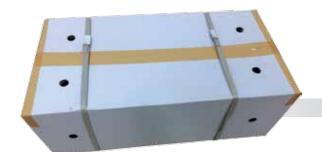
0.05 mm

• 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.



कृषि और प्रसंस्कृत खाद्य उत्पादन निर्यात विकास प्राधिकरण

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Specifications developed by IIP for APEDA



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