

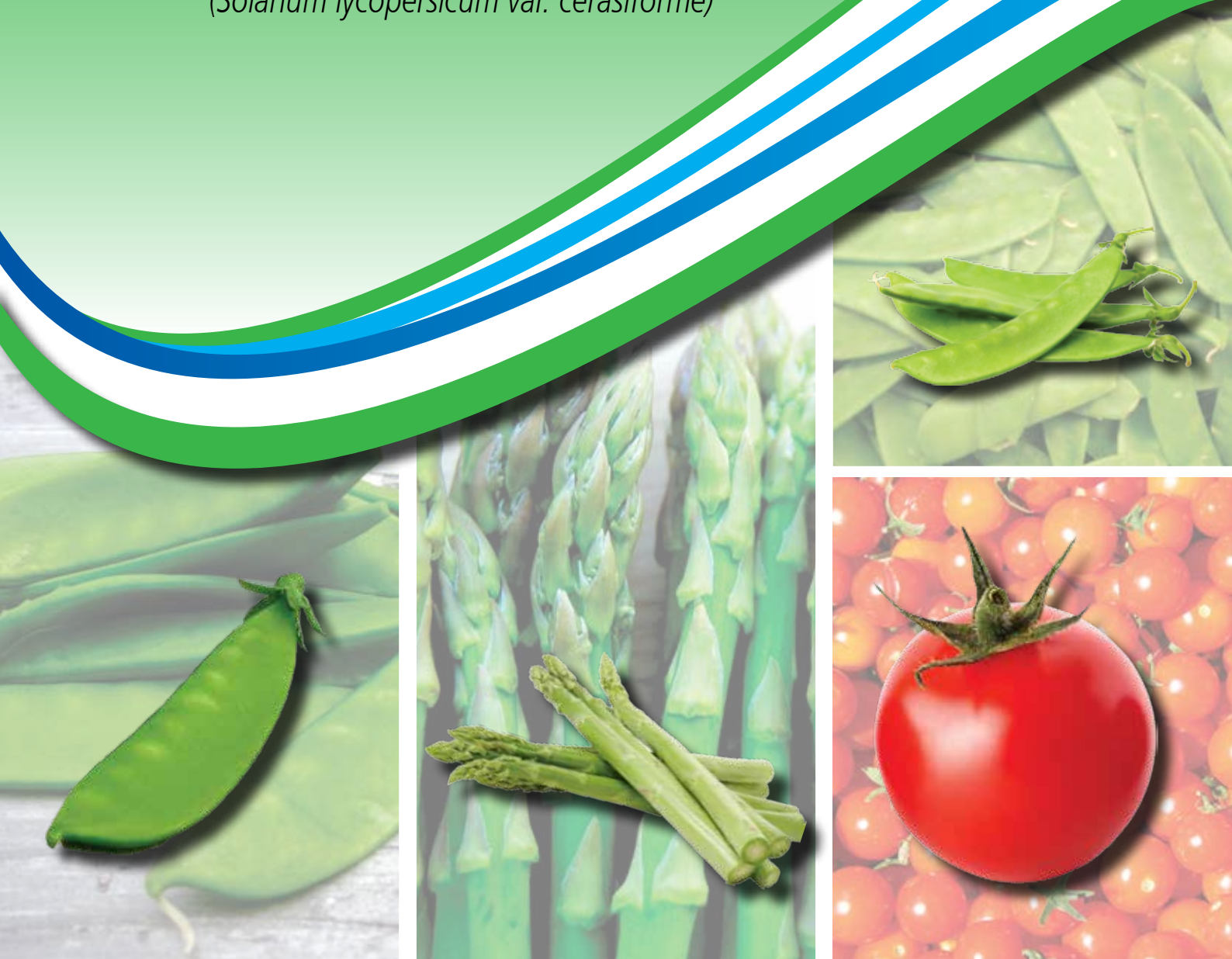
PACKAGING SPECIFICATIONS  
FOR EXPORTS

SNOW PEAS (*Pisum sativum var. saccharatum*)

SNAP PEAS (*Pisum sativum var. macrocarpon*)

ASPARAGUS (*Asparagus officinalis*)

CHERRY TOMATOES  
(*Solanum lycopersicum var. cerasiforme*)



# SNOW PEAS - SNAP PEAS - ASPARAGUS

## DIMENSIONS OF CONSUMER PACK

### SNOW PEAS / SNAP PEAS

#### A) Flexible Plastic Pouch

Capacity	Empty Pouch*		Filled Pouch*		
	Length (l) (mm)	Width (b) (mm)	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)
250 grams	250	195	190	160	60
500 grams	350	225	245	195	60

\* Includes 5 mm seal width on sides and bottom

#### B) Plastic Punnet with Lid

Capacity	Punnet Size					
	Tray			Lid		
	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)
250 grams	190	115	60	To fit the tray	To fit the tray	25
500 grams	190	115	110	To fit the tray	To fit the tray	15

#### C) EPS Tray Stretch Wrapped

Capacity	Tray Size		
	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)
250 grams	245	145	40

### CHERRY TOMATOES

#### A) Flexible Plastic Pouch

Capacity	Empty Pouch*		Filled Pouch*		
	Length (l) (mm)	Width (b) (mm)	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)
250 grams	240	150	165	130	30

\* Includes 5 mm seal width on sides and bottom

#### B) Plastic Punnet with Lid

Capacity	Punnet Size					
	Tray			Lid		
	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)
250 grams	190	115	40	To fit the tray	To fit the tray	25

#### C) EPS Tray Stretch Wrapped

Capacity	Tray Size		
	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)
250 grams	200	125	35

# - CHERRY TOMATOES

## ASPARAGUS

### A) Flexible Plastic Pouch

Capacity	Empty Pouch*		Filled Pouch*		
	Length (l) (mm)	Width (b) (mm)	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)
200 grams	310	170	180	145	20

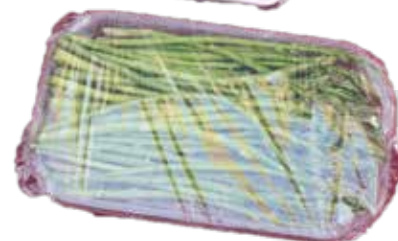
\* Includes 5 mm seal width on sides and bottom

### B) EPS Tray Stretch Wrapped

Capacity	Tray Size		
	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)
400 grams	245	300	100

### C) Stretch Wrapped in Bunches

Capacity	Length (l) (mm)	Width (b) (mm)	Height (h) (mm)
200 Grams	360	65	35



# SNOW PEAS - SNAP PEAS - ASPARAGUS -

## CONSUMER PACK

### A. Flexible Pouches (250 gms, 500 gms.)

Material of Construction : LDPE (Low density Polythene ) or PP (Polypropylene)

Thickness ( $\mu$ ) : 37.5 or 25

Type of pouch : Pillow pouch

Seal Width (Minimum) : 5 mm

Note:

1. Tolerance

- a) Permissible Lower Level : Polythene film (-1.0%)  
Polypropylene film (-1.0%)

b) Upper Level

A higher specification (positive tolerance) always could be acceptable but however should not lead to high rigidity, flex crack or reduced seal strength. A higher specification may add to the cost.

2. The material could be transparent/opaque coloured as per the requirements of the importer.

3. The material used shall be food grade and pass the prescribed Indian Standard / Standards if any and as demanded by the importing countries.

1. Printing requirements shall conform to as prescribed by the importing countries.

2. General Observations:

- a) The pouches shall be clean and without any foreign particle.  
b) The seal width shall be minimum 5 mm, particularly the top seal (for filled pouches )  
c) The pouches shall be either reverse or surface printed. In case of surface print, the print shall be compatible with the product and shall not lift or smudge. The print shall be legible and easy to read.

### B. Plastic Punnet (250 gms, 500 gms.)

Material : Food grade PET (Polythene Terephthalate)

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

### C. Stretch Film

Material of construction : Food grade, Odourless, Stretchable  
: LDPE (Low density Polythene )  
or  
: LLDPE (Linear low density Polythene )  
or  
: PVC (Poly Vinyl Chloride) film.

Thickness ( minimum ) ( $\mu$ ) : 15.00

### D. Expanded Polystyrene Tray

Material of construction : EPS (Expanded Polystyrene)

Density (g/cc) : 0.08

Thickness : Not more than 5 mm

# - CHERRY TOMATOES



## TRANSPORT PACK FOR CONSUMER PACKS

		<b>ASPARAGUS</b>	
Type of Consumer Pack	Flexible Plastic Pouch / Stretch Wrapped in Bunches	EPS Tray Stretch Wrapped	
Capacity of Consumer Pack	200 grams	400 grams	
<b>A. Minimum Specifications</b>			
Material of Construction*	Corrugated Fibre Board	Corrugated Fibre Board	Corrugated Fibre Board
External Dimensions (mm)	400 x 300 x 60	500 x 300 x 100	500 x 300 x 100
Style of Box**	Telescopic - 0300	Telescopic - 0306	Telescopic - 0312
No. of Plies	Lid - 3 Tray - 3	Lid - 3 Tray - 3	Lid - 3 Tray - 3
Type of Flutes	Lid B (Narrow) Tray B (Narrow)	Lid B (Narrow) Tray B (Narrow)	Lid B (Narrow) Tray B (Narrow)
Direction of Flutes	Vertical	Vertical	Vertical
Grammage (g/m <sup>2</sup> ) Outer to Inner (Indicative)	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	20	20
Bursting Strength of Board (Kg/cm <sup>2</sup> ) (Minimum)	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
Manufacturer's Joint	By gluing	By gluing	By gluing
Compression Strength of Box (Kgf) (Minimum)	350	350	350
COBB (30 Minutes)*** (g/m <sup>2</sup> ) (Maximum)	60	60	60
No. of Ventilation Holes	16.0	16.0	16.0
Diameter (mm) and Position of Holes	20.0	20.0	20.0
Two Sides Each	3	3	3
Two Ends Each	1	1	1
Top & Bottom Each	4	4	4
<b>B. Recommended Specifications</b>			
Edge Crush (Kgf) (Minimum)	30	30	30

\*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.

# SNOW PEAS - SNAP PEAS - ASPARAGUS -

## TRANSPORT PACK FOR CONSUMER PACKS

SNOW PEAS / SNAP PEAS				
Type of Consumer Pack	Flexible Plastic Pouch		Plastic Punnet With Lid	
Capacity of Consumer Pack	250 grams	500 grams	250 grams	500 grams
<b>A. Minimum Specifications</b>				
Material of Construction*	Corrugated Fibre Board	Corrugated Fibre Board	Corrugated Fibre Board	Corrugated Fibre Board
External Dimensions (mm)	500 x 400 x 140	500 x 400 x 140	500 x 400 x 95	500 x 400 x 135
Style of Box**	RSC - 0201	Telescopic - 0312	One piece tuck-in-type	One piece tuck-in-type
No. of Plies	3	Lid - 3 Tray - 3	3	3
Type of Flutes	B (Narrow)	Lid B (Narrow) Tray B (Narrow)	B (Narrow)	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	250/150/150	250/150/150
Burst Factor of Paper (Kraft) (Minimum)	20	20	20	20
Bursting Strength of Board (Kg/cm <sup>2</sup> ) (Minimum)	11.0	Lid : 11.0 Tray : 11.0	11.0	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)	30	30	25	25

\*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.

# - CHERRY TOMATOES



## SNOW PEAS / SNAP PEAS

Type of Consumer Pack Capacity of Consumer Pack	EPS Tray Stretch Wrapped	
	250 grams	500 grams
<b>A. Minimum Specifications</b>		
Material of Construction*	Corrugated Fibre Board	Corrugated Fibre Board
External Dimensions (mm)	500 x 300 x 100	500 x 400 x 140
Style of Box**	Telescopic - 0306	Telescopic - 0312
No. of Plies	Lid - 3 Tray - 3	Lid - 3 Tray - 3
Type of Flutes	Lid B (Narrow) Tray B (Narrow)	Lid B (Narrow) Tray B (Narrow)
Direction of Flutes	Vertical	Vertical
Grammage (g/m <sup>2</sup> ) Outer to Inner (Indicative)	Lid : 250/150/150 Tray : 250/150/150	Lid : 250/150/150 Tray : 250/150/150
Burst Factor of Paper (Kraft) (Minimum)	20	20
Bursting Strength of Board (Kg/cm <sup>2</sup> ) (Minimum)	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
Manufacturer's Joint	By gluing	By gluing
Compression Strength of Box (Kgf) (Minimum)	350	350
COBB (30 Minutes)*** (g/m <sup>2</sup> ) (Maximum)	60	60
No. of Ventilation Holes	16.0	16.0
Diameter (mm) and Position of Holes	20.0	20.0
Two Sides Each	3	3
Two Ends Each	1	1
Top & Bottom Each	4	4
<b>B. Recommended Specifications</b>		
Edge Crush (Kgf) (Minimum)	30	30



# SNOW PEAS - SNAP PEAS - ASPARAGUS -

## TRANSPORT PACK FOR CONSUMER PACKS

### CHERRY TOMATOES

**Type of Consumer Pack**

**Flexible Plastic Pouch / EPS Tray Stretch Wrapped**

**Capacity of Consumer Pack**

**250 grams**

#### A. Minimum Specifications

Material of Construction*	Corrugated Fibre Board	Corrugated Fibre Board	Corrugated Fibre Board	Corrugated Fibre Board
External Dimensions (mm)				
Flexible Plastic Pouch	500 x 400 x 140	500 x 400 x 140	500 x 400 x 140	500 x 400 x 140
Eps Tray Stretch Wrapped	500 x 400 x 95	500 x 400 x 95	500 x 400 x 95	500 x 400 x 95
Style of Box**	RSC - 0201	Telescopic - 0300	Telescopic - 0306	Telescopic - 0312
No. of Plies	3	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	20	20	20
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)	30	30	30	30

\*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.



# CHERRY TOMATOES

## CHERRY TOMATOES

<b>Type of Consumer Pack</b>	<b>Plastic Punnet With Lid</b>
<b>Capacity of Consumer Pack</b>	<b>250 grams</b>

### A. Minimum Specifications

Material of Construction*	Corrugated Fibre Board
External Dimensions (mm)	500 x 400 x 80
Style of Box**	One piece tuck-in-type
No. of Plies	3
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
Bursting Strength of Board (Kg/cm <sup>2</sup> ) (Minimum)	11.0
No. of Pieces per Box	Not more than two
Manufacturer's Joint	By gluing
Compression Strength of Box (Kgf) (Minimum)	350
COBB (30 Minutes)*** (g/m <sup>2</sup> ) (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

### B. Recommended Specifications

Edge Crush (Kgf) (Minimum)	25
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# SNOW PEAS - SNAP PEAS - ASPARAGUS -

## DIMENSIONS AND PLACEMENT OF CONSUMER PACKS IN TRANSPORT PACK

### SNOW PEAS / SNAP PEAS / CHERRY TOMATOES / ASPARAGUS

Type of Consumer Pack	Capacity of Consumer Pack	Dimensions of Filled Pack L X B X H (mm)	External Dimensions of the Box L X B X H (mm)	Placement Pattern	Net Weight of Contents (Kg)
<b>Snow peas / Snap peas</b>					
Flexible Plastic Pouch	250 grams	190 x 60 x 60	500 x 400 x 140	3b x 2l x 2h	3
	500 grams	245 x 195 x 60	500 x 400 x 140	21 x 2b x 2 h	4
Plastic Punnet with lid	250 grams	195 x 120 x 75	500 x 400 x 95	4b x 21 x l h	2
EPS Tray stretch wrapped	250 grams	195 x 120 x 110	500 x 400 x 135	4 b x 21 x l h	4
	500 grams	245 x 145 x 40	500 x 300 x 100	2 l x 2 b x 2 h	2
<b>Cherry Tomatoes</b>					
Flexible Plastic Pouch	250 grams	165 x 130 x 30	500 x 400 x 95	31 x 2b x 2h	3
Plastic Punnet with lid	250 grams	195 x 120 x 60	500 x 400 x 80	4b x 21 x l h	2
EPS Tray stretch wrapped	250 grams	245 x 125 x 35	500 x 400 x 95	2 l x 2 b x 2 h	2
<b>Asparagus</b>					
Flexible Plastic Pouch	200 grams	180 x 145 x 20	400 x 300 x 60	2l x 2b x 2h	1.6
EPS Tray stretch wrapped	400 grams	245 x 300 x 100	500 x 300 x 100	2l x 2b x 2h	3.2
Stretch wrapped in bunches	400 grams	360 x 65 x 35	380 x 240 x 80	1l x 4b x 2h	1.6

### Specification Details of Reinforcement Materials

#### Pressure Sensitive Tape

- Material Of Construction BOPP or PVC  
(Biaxially 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 (min.) 80 kg/12 mm width
- Elongation (max.) 25%

## Specification Details of Separator Plates

• Material Of Construction	Corrugated Fibre Board
• No. of Plies	3
• Type of Flute	B (Narrow)
• Grammage (g/m <sup>2</sup> )	150/150/150
• Bursting Strength (kg/cm <sup>2</sup> ) (minimum)	5.00



## 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 and vegetables** 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

(वाणिज्य एवं उद्योग मंत्रालय, भारत सरकार)

### **Agricultural and Processed Food Products Export Development Authority**

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Specifications developed by IIP for APEDA



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