PACKAGING SPECIFICATIONS FOR EXPORTS

GRAPES

(Vitis vinifera)
## Corrugated Fibreboard Box

**Capacity : 1 Kg**

### A. Minimum Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Corrugated Fibre Board</th>
<th>Corrugated Fibre Board</th>
<th>Corrugated Fibre Board</th>
<th>Corrugated Fibre Board</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material of Construction</strong>*</td>
<td>Corrugated Fibre Board</td>
<td>Corrugated Fibre Board</td>
<td>Corrugated Fibre Board</td>
<td>Corrugated Fibre Board</td>
</tr>
<tr>
<td><strong>External Dimensions (mm)</strong></td>
<td>200 x 200 x 75</td>
<td>200 x 200 x 75</td>
<td>200 x 200 x 75</td>
<td>200 x 200 x 75</td>
</tr>
<tr>
<td><strong>Style of Box</strong></td>
<td>RSC - 0201</td>
<td>Telescopic - 0300</td>
<td>Telescopic - 0306</td>
<td>Telescopic - 0312</td>
</tr>
<tr>
<td><strong>No. of Plies</strong></td>
<td>3.0</td>
<td>Lid - 3 Tray - 3</td>
<td>Lid - 3 Tray - 3</td>
<td>Lid - 3 Tray - 3</td>
</tr>
<tr>
<td><strong>Type of Flutes</strong></td>
<td>B (Narrow)</td>
<td>Lid B (Narrow)</td>
<td>Lid B (Narrow)</td>
<td>Lid B (Narrow)</td>
</tr>
<tr>
<td><strong>Direction of Flutes</strong></td>
<td>Vertical</td>
<td>Vertical</td>
<td>Vertical</td>
<td>Vertical</td>
</tr>
<tr>
<td><strong>Grammage (g/m²)</strong></td>
<td>250/150/150</td>
<td>250/150/150</td>
<td>250/150/150</td>
<td>250/150/150</td>
</tr>
<tr>
<td><strong>Edge Crush (Kgf) (Minimum)</strong></td>
<td>33.00</td>
<td>33.00</td>
<td>33.00</td>
<td>33.00</td>
</tr>
</tbody>
</table>

*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.
<table>
<thead>
<tr>
<th><strong>Material of Construction</strong></th>
<th>Expanded Polystyrene</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>External Dimensions (mm)</strong></td>
<td></td>
</tr>
<tr>
<td>4.5/5 kg</td>
<td>390 x 320 x 155</td>
</tr>
<tr>
<td>9 kg</td>
<td>500 x 390 x 180</td>
</tr>
<tr>
<td><strong>Style of Box</strong>*</td>
<td>Lid &amp; Tray</td>
</tr>
<tr>
<td><strong>Density of EPS (Kg / m³) (Minimum)</strong></td>
<td>18.00</td>
</tr>
<tr>
<td><strong>No. of Pieces per Box</strong></td>
<td>Not more than two</td>
</tr>
<tr>
<td><strong>Compression Strength (Kgf) (Minimum)</strong></td>
<td>300.00</td>
</tr>
<tr>
<td><strong>No. of Ventilation Holes</strong></td>
<td>16.00</td>
</tr>
<tr>
<td><strong>Diameter (mm) &amp; Position of Holes</strong></td>
<td>20.00</td>
</tr>
<tr>
<td>Two Sides Each</td>
<td>3</td>
</tr>
<tr>
<td>Two Ends Each</td>
<td>1</td>
</tr>
<tr>
<td>Top &amp; Bottom Each</td>
<td>4</td>
</tr>
<tr>
<td>or Equivalent Ventilation</td>
<td></td>
</tr>
</tbody>
</table>

*Or any other suitable style with equal strength and performance

**Note:**
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### Specifications for Consumer Packs

**Type of Consumer Pack:** Plastic Punnet With Lid  
**Capacity:** 500 grams  
**Material:** Food grade PET (Polyethylene Terepthalate)  
**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/m²)** | 250 / 150 / 150  
| **Burst Factor of Paper (Kraft) (Minimum)** | 20.0  
| **Bursting Strength of Board (Kg/cm²) (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/m²) (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  

*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:**  
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## Specification Details for Reinforcement Material

### Pressure Sensitive Tape
- **Material of Construction**: BOPP or PVC (Biaxially Oriented Polypropylene or Poly Vinyl Chloride)
- **Thickness**: 20 µ
- **Width (Minimum)**: 50 mm
- **Adhesive Property**: As per IS:3676-1986

### 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%

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**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.
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Specifications developed by IIP for APEDA