Paper bags — Specification
TECHNICAL COMMITTEE REPRESENTATION

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Kenya flower council
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Foreword

This standard has been prepared by the Technical Committee on packaging under the guidance of the Standards Projects Committee, and it is in accordance with the procedures of the Kenya Bureau of Standards.

A paper bag is a preformed container made of paper, usually with an opening at one end. It can be one layer of paper or multiple layers of paper and other flexible materials. Paper bags are used for packaging and/or carrying items.

Paper shopping bags, brown paper bags, grocery bags, paper bread bags and other light duty paper bags have a single layer of paper. A variety of constructions and designs are available. Many are printed with the names of stores and brands. Paper bags are not waterproof. Types of paper bags are: laminated, twisted, flat tap. The laminated bag, whilst not totally waterproof, has a laminate that protects the outside to some degree.

This standard shall be useful to manufacturers or Importers of the paper bags. Among the parameters covered in the standard include, dimension, material, grammage, bursting strength, tearing resistance etc.

During the preparation of this Standard reference was made on;

CK 67:1987 Paper bags

Acknowledgment is hereby made for the assistance derived from this source.
1. **Scope**

This Kenya Standard prescribes the requirements and test methods for gusseted paper bags that have rectangular bottoms and are intended primarily for packaging and/or carrying items.

2. **Normative references**

   The following normative document contains provisions which, through reference in this text, constitute provisions of this Kenya Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this Kenya Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies.

   - ISO 536:2012: Paper and board -- Determination of grammage
   - ISO 2758:2001 Paper -- Determination of bursting strength

3. **Requirements**

3.1 **Material**

3.1.1 **Paper**

3.1.1.1 **General**

   The paper shall be free from dust, holes, wood splinters and other defects that may affect its appearance or impair its serviceability (or both) and shall be bleached or unbleached.

3.1.1.2 **Physical properties**

   The physical properties of the paper shall comply with the relevant requirement given in table 1. The paper shall be of three classes specified in this table.
Table 1: Physical and chemical requirement of the paper

<table>
<thead>
<tr>
<th>S.NO</th>
<th>Characteristics</th>
<th>Requirement</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Class 1</td>
<td>Class 2</td>
</tr>
<tr>
<td>a.</td>
<td>Grammage, g/m², ±5%</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>b.</td>
<td>Bursting strength, kP.a, min</td>
<td>90</td>
<td>124</td>
</tr>
<tr>
<td>c.</td>
<td>Tearing resistance (MD), mN, min</td>
<td>320</td>
<td>430</td>
</tr>
</tbody>
</table>

Fig1: Typical examples of the paper bag

3.1.2 Adhesive
The adhesive used in the manufacture of the bags shall be that gummed seams comply to the requirements of clause 3.1.3.4

3.1.3 Bag construction

3.1.3.1 Style
Bags shall be open mouthed, gusseted rectangular-bottomed style.

3.1.3.2 Size
The size of the paper bags shall be as given in table 2

3.1.3.3 Class of paper
The class of paper used shall be as given in Table 2 relevant to the bag size designation.

### Table 2: Dimension of paper bags and class of paper

<table>
<thead>
<tr>
<th>Size designation</th>
<th>Width, mm</th>
<th>Length of the bag, mm</th>
<th>Class of paper</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>83-89</td>
<td>185</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>102-108</td>
<td>210</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>117-126</td>
<td>215</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>124-133</td>
<td>240</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>152-169</td>
<td>290</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>162-171</td>
<td>320</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>177-186</td>
<td>335</td>
<td>2</td>
</tr>
<tr>
<td>16</td>
<td>193-202</td>
<td>370</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>207-216</td>
<td>390</td>
<td>2</td>
</tr>
<tr>
<td>25</td>
<td>207-216</td>
<td>440</td>
<td>2</td>
</tr>
<tr>
<td>35</td>
<td>207-216</td>
<td>575</td>
<td>3</td>
</tr>
</tbody>
</table>

#### 3.1.3.4 Closures
The side seam of the bag shall be gummed down continuously all over the full length of the seam. The overlaps of the closure of the rectangular bottom shall be gummed such that when the contents are in powder form, it’s impossible for the contents to leak out through the overlaps.

### 4 Packaging and Marking

#### 4.1 Packaging
Paper bags shall be packed in materials or containers that protects them from damage during normal handling and transportation.

#### 4.2 Marking
- a. manufactures/suppliers name or trade mark or both
- b. the size designation of the bags
- c. the quantity of the bags
- d. country of origin/manufacture