

Specification for

Open-mouth sacks manufactured from woven polyolefin tape yarn

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- Association of Drum Manufacturers
- British Bag Federation
- British Fibreboard Packaging Association
- British Food Manufacturing Industries Research Association
- British Paper and Board Industry Federation (PIF)*
- British Stationery and Office Products Federation
- Chemical Industries Association*
- Collapsible Tube Manufacturers' Association
- Department of Trade (Paper, Printing, Publishing, Services and Distribution)
- Department of Transport
- Food Manufacturers' Federation Incorporated*
- General Council of British Shipping
- Glass Manufacturers' Federation
- Institute of Packaging
- Institute of Trading Standards Administration
- Institution of Production Engineers
- Metal Packaging Manufacturers' Association
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- Oil Companies Materials Association
- Paintmakers' Association of Great Britain Limited
- Pira (the Research Association for the Paper and Board, Printing and Packaging Industries)*
- Soap and Detergent Industry Association
- Timber Packaging and Pallet Confederation
- Timber Research and Development Association
- Coopted members

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Technical Committee entrusted with the preparation of this British Standard:

- British Plastics Federation
- British Polyolefin Textiles Association
- Jute Sack and Bag Manufacturers' Association
- National Coal Board
- National Association of British and Irish Millers Limited
- Packaging and Industrial Films Association
- Paper Sack Development Association Limited
- United Kingdom Sugar Industry Association
- United Kingdom Jute Goods Association

This British Standard, having been prepared under the direction of the Packaging and Freight Containers Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 November 1981

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The following BSI references relate to the work on this standard:
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Foreword

This British Standard has been prepared under the direction of the Packaging and Freight Containers Standards Committee at the request of the Chemical Industries Association.

It had been the intention to include a performance requirement for resistance to degradation by ultraviolet (UV) light together with an appropriate method of test. However, methods of test currently available are not considered suitable. The position will be reviewed at a later date according to developments in this area.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This British Standard specifies requirements for the materials, dimensions and performance of open-mouth sacks manufactured from plain weave fabrics produced from polyolefin tape yarns. Methods of test are included in Appendix A to Appendix C.

Notes for the guidance of users are included in Appendix D.

2 Reference

The title of the publication referred to in this standard is given on the inside back cover.

3 Definitions

For the purposes of this British Standard, the following definitions apply.

3.1

woven polyolefin sack

a flexible container, made from fabric manufactured from woven polyolefin tape yarn, with or without a liner

3.2

liner

a single ply flexible container which may be loosely inserted or anchored in a sack

3.3

woven polyolefin fabric

a sheet material woven from polyolefin tape yarn

3.4

polyolefin tape yarn

flat yarn having a high ratio of width to thickness, composed of polyolefin polymer

3.5 weave

3.5.1

fabric weave

the pattern of interlacing of the warp (the tapes running in the machine or longitudinal direction of the woven material) and the weft (the tapes in the transverse direction)

3.5.2

sack weave

the number of tapes per 100 mm running in the longitudinal direction of the sack by the number of tapes per 100 mm running in the transverse direction

NOTE 1 The sack weave is expressed as, for example, 40 × 50.

NOTE 2 In the finished sack, the warp of the fabric may run along the length or across the width of the sack depending on the method of conversion.

3.6

coated fabric

a fabric coated on one or both sides with a suitable polymer

4 Materials

4.1 Fabric. Fabric shall be woven from polyolefin tape yarns.

The weave of the fabric shall be plain and its construction described as warp by weft in tapes per 100 mm, e.g. 50 × 40,

i.e. warp 50 tapes/100 mm, weft 40 tapes/100 mm.

The fabric shall be either uncoated or coated on one or both sides.

4.2 Stitching thread. The stitching thread shall be made from either:

- a) polypropylene, or
- b) other materials provided they are not adversely affected by the contents of the sack or by the expected climatic conditions in transit, storage and use.

5 Dimensions

5.1 Expression of dimensions. The stated dimensions of a sack shall be the internal dimensions and shall be expressed as:

- a) face width × length, in millimetres, for an open-mouth flat sack (see Figure 1);
- b) face width × width of gusset × length, in millimetres, for an open-mouth gusseted sack (see Figure 2);

regardless of whether the length is greater or less than the face width.

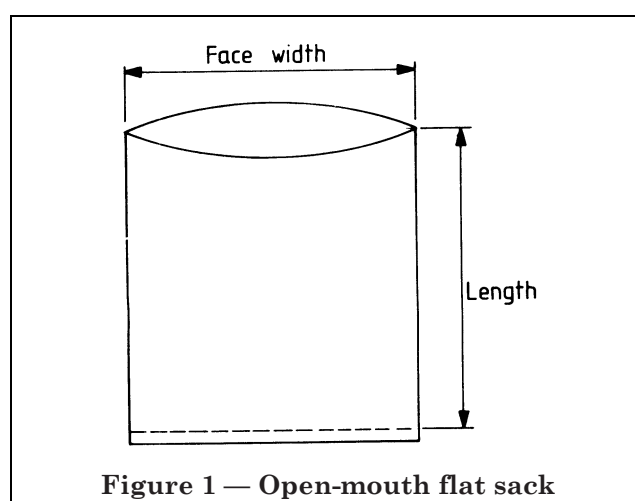


Figure 1 — Open-mouth flat sack