

Specification for

# Plastics and rubber dustbin lids

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# Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Building Services Standards Committee (SEB/-) to Technical Committee SEB/20 upon which the following bodies were represented:

Association of Metropolitan Authorities  
 Consumer Standards Advisory Committee of BSI  
 Container Handling Equipment Manufacturers  
 Engineering Industries' Association  
 Institute of Housing  
 Institute of Wastes Management  
 Institution of Civil Engineers  
 Institution of Environmental Health Officers  
 Institution of Public Health Engineers  
 Packaging and Industrial Films Association

This British Standard, having been prepared under the direction of the Building Services Standards Committee, was published under the authority of the Board of BSI and comes into effect on 27 February 1987

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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 Building Services Standards Committee. It is a revision of BS 3735:1976, which is withdrawn. The principal changes in this revision are as follows.

- a) The scope of the standard now covers both rubber and plastics lids but no longer covers rubber foot rings.
- b) There is no longer a requirement for resistance to weathering.
- c) The requirement for the mass of lids has been simplified.

For information on low carbon steel dustbins and lids see BS 792.

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### Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 and 2, 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 dustbin lids manufactured from polymeric compounds of thermoplastics or rubber or a combination of both, suitable for use with dustbins which comply with BS 4998 or, in the case of low carbon (mild steel) dustbins, which comply with BS 792.

NOTE The titles of the publications referred to in this standard are listed on the inside back cover.

## 2 Definitions

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

### 2.1

#### thermoplastics

a plastics material capable of being repeatedly softened by heat and hardened by cooling

### 2.2

#### rubber

a solid material with elastic properties made from latex from living plants or synthetically

## 3 Classification

Thermoplastics and rubber dustbin lids are classified as follows:

Type 1: clipped lid;

Type 2: unclipped lid;

Type 3: heavy duty.

## 4 Material

The material from which the lid is produced shall be a polymeric compound of thermoplastics or rubber or a combination of both.

## 5 Mass

The minimum mass of the lid shall be:

Type 1: 0.50 kg;

Type 2: 0.55 kg;

Type 3: 2.00 kg.

## 6 Design requirements

**6.1** The lid shall be round with both the inside and outside surfaces smooth and free from flashes and shall have no sharp edges.

**6.2** The lid shall be provided with either:

- a) a handle having a grip of not less than 80 mm in length with a clear unobstructed projection of not less than 25 mm, the gripping part of which shall be radiused all round to eliminate sharp corners or edges; or
- b) a handle having a length of not less than 80 mm and a solid projection of not less than 25 mm.

Where the lid is designed to lift off the bin, the grip/handle shall be centrally situated.

**6.3** The lid top shall be convex with no cavities which would prevent the drainage of water. The lid shall be so designed as to remain secure when the dustbin is tilted at an angle of 45°, without the assistance of attachments or clips. Where the lid enters or overlaps the bin body for which it is designed it shall have a minimum entry or overlap height of 30 mm, with a maximum radial clearance of 10 mm diametral.

## 7 Performance

### 7.1 Impact strength

When tested in accordance with the method described in Appendix A, the lid shall show no splitting. Subsequent to this test the lid shall meet the requirements specified in **6.3**.

### 7.2 Deformation resistance

When tested in accordance with the method described in Appendix B, the lid shall show no splitting or permanent deformation. Subsequent to this test the lid shall meet the requirements specified in **6.3**.

## 8 Marking

Each lid shall be clearly and permanently marked with the following:

- a) number and date of this British Standard, i.e. BS 3735:1987<sup>1)</sup>;
- b) size (diameter) and type of lid;
- c) manufacturer's name and identification.

NOTE Unless otherwise specified, the lid should be clearly and permanently marked with the wording "NO HOT ASHES".

<sup>1)</sup> Marking BS 3735:1987 on or in relation to a product is a claim by the manufacturer that the product has been manufactured to the requirements of the standard. The accuracy of such a claim is therefore solely the manufacturer's responsibility. Enquiries as to the availability of third party certification should be addressed to the appropriate certification body.

### Appendix A Test for impact strength

Condition the lid at  $-10 \pm 2$  °C for at least 2 h in a chamber of convenient size, e.g. a commercial deepfreeze for foodstuffs.

Remove the lid from its cooling environment and place it on a hard flat surface. Within 1 min of its removal, using a striker having a mass of  $2.7 \pm 0.2$  kg with a hemispherical striking surface of  $25 \pm 2$  mm radius, strike the lid close to its centre, but not on its handle, by dropping the striker from a height of  $3.0 \pm 0.05$  m.

### Appendix B Test for deformation resistance

Condition the lid at  $30 \pm 2$  °C for at least 2 h prior to testing.

Place the lid on a dustbin body or on the top section of a dustbin (minimum depth 0.5 m) supported on a hard flat surface and apply a force of  $3.7 \pm 0.2$  kg over an area of  $90_{-5}^{+0}$  mm diameter as near as practicable to the lid centre but not on the lid handle, for a period of  $30 \pm 1$  min.

## Publications referred to

BS 792, *Mild steel dustbins.*

BS 4998, *Specification for moulded thermoplastics dustbins (excluding lids).*

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