

Specification for

**Preformed rigid
polyurethane (PUR)
and polyisocyanurate
(PIR) foams for thermal
insulation of pipework
and equipment**

Confirmed December 2009

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Plastics and Rubber Standards Policy Committee (PRM/-) to Technical Committee PRM/72, upon which the following bodies were represented:

- Association of Building Component Manufacturers
- Brick Development Association
- British Board of Agrément
- British Plastics Federation
- British Rigid Urethane Foam Manufacturers' Association
- Calcium Silicate Brick Association Limited
- Cavity Foam Bureau
- Department of the Environment (Building Research Establishment)
- Department of the Environment (Construction Industries Directorate)
- Engineering Equipment and Materials Users' Association
- European Phenolic Foam Association
- Flat Roofing Contractors' Advisory Board
- Ministry of Defence
- National Federation of Roofing Contractors
- National House-building Council
- Polyethylene Foam Insulation Association
- Royal Institute of British Architects

The following bodies were also represented in the drafting of the standard through subcommittees and panels:

- British Ceramic Research Ltd.
- British Urethane Contractors' Association (BUFCA)
- RAPRA Technology Ltd.

This British Standard, having been prepared under the direction of the Plastics and Rubber Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 November 1993

© BSI 07-1999

First published December 1978
Second edition June 1986
Third edition November 1993

The following BSI references relate to the work on this standard:
Committee reference PRM/72
Draft for comment 92/46013 DC

ISBN 0 580 22273 X

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
Foreword	ii
1 Scope	1
2 References	1
3 Designation	1
4 Composition	1
5 Physical properties	2
6 Dimensions and dimensional tolerances	2
7 Condition and appearance	2
8 Sampling	2
9 General requirements	3
10 Marking	3
Annex A (normative) Method of preparation of a moulded flat test piece	4
Annex B (informative) Guidance on thermal conductivity design and 3 day values	4
Annex C (normative) Method of test for compression characteristics	4
Annex D (normative) Method of test for dimensional stability	4
Annex E (informative) Burning properties of rigid PUR and PIR foam and recommendations for use	4
Annex F (informative) Notes for designers	5
Table 1 — Designation codes for thermal conductivity	1
Table 2 — Physical property requirements	2
Table 3 — Dimensional tolerances for pipe sections and lags	3
Table 4 — Dimensional tolerances for slabs	3
List of references	Inside back cover

Foreword

This British Standard has been prepared under the direction of the Plastics and Rubber Standards Policy Committee. It supersedes BS 5608:1986 which is withdrawn.

In the 1986 edition one category of rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products was excluded, the continuously formed pipe sections; and one category added, slabs. The performance requirements and test methods were updated from the 1978 edition together with the guidance on burning properties and recommendations regarding their use.

This edition introduces technical changes but it does not reflect a full review or revision of the standard. Requirements have been included for thermal conductivity to be designated by the manufacturer.

It is envisaged that this standard will be replaced by a European Standard in due course and that the European Standard will be adopted in the BS EN series.

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.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, 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.