

Methods of testing

Plastics —

Part 9: Sampling and test specimen preparation —

Method 940A: Preparation of test specimens of amorphous thermoplastics in the form of bars with a specified reversion

IMPORTANT NOTE. Before reading this method it is essential to read BS 2782-0, Introduction, issued separately

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Plastics Standards Policy Committee (PLM/-) to Technical Committee PLM/17, upon which the following bodies were represented:

- British Plastics Federation
- British Steel Industry
- British Telecommunications plc
- Department of Trade and Industry (National Physical Laboratory)
- EEA (the Electronics and Business Equipment Association)
- Electrical and Electronic Insulation Association (BEAMA Ltd.)
- Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)
- GAMBICA (BEAMA Ltd.)
- Man-made Fibres Producers' Committee
- Ministry of Defence
- PIRA
- Packaging and Industrial Films Association
- Plastics Industrial Containers Association
- Plastics and Rubber Institute
- RAPRA Technology Ltd.
- Standards Association of Australia
- Telecommunication Engineering and Manufacturing Association
- Yarsley Technical Centre Ltd.

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National foreword

This method has been prepared under the direction of the Plastics Standards Policy Committee and is identical with ISO 2557 “*Plastics — Amorphous thermoplastics — Preparation of test specimens with a specified maximum reversion — Part 1: Bars*” published in 1989 by the International Organization for Standardization (ISO). It is a revision of BS 2782:Method 940A:1981, which was identical with ISO 2557-1:1976 and which is withdrawn.

This standard differs from BS 2782:Method 940A:1981 principally in the following respects.

- a) The term “reversion” is used in place of “shrinkage” throughout the document and related definitions have been included accordingly.
- b) The text is based upon publication of the method of test for reversion separately from ISO 2557-1, specifically as ISO 8328 (see “Cross-references” and “Additional information” in this national foreword).
- c) Moulding conditions are specified as applicable with the introduction of a reference to ISO 294, and hence to BS 2782:Method 910A, or to ISO 293, and hence to BS 2782:Method 901.
- d) The term “bar” is used in place of “strip” for reference to the form of test specimen profile covered by ISO 2557-1 and hence BS 2782:Method 940A.
- e) The title of the 1989 edition of ISO 2557-1 differs from that of the 1976 edition in the following respects:
 - 1) the term “specified maximum reversion” replaces “defined level of shrinkage”;
 - 2) the terms “moulding materials”, “parallelepipedic” and “injection moulding and compression moulding” have been deleted.

The title of BS 2782:Method 940A has been changed accordingly.

Cross-references

International Standard	Corresponding British Standard
	BS 2782 <i>Methods of testing plastics</i>
ISO 293:1986	Method 901A:1988 <i>Compression moulding test specimens of thermoplastic materials</i> (Identical)
ISO 294:1975	Method 910A:1977 <i>Injection moulding test specimens of thermoplastic materials</i> (Identical)
ISO 306:1987	Methods 120A, 120B, 120D and 120E:1990 <i>Determination of Vicat softening temperature of thermoplastics</i> (Identical)
ISO 2557-2:1986	Method 940B:1989 <i>Preparation of test specimens of amorphous thermoplastics with a specified reversion by injection moulding rectangular plates</i> (Identical)
ISO 8328:1989	Method 941:1990 <i>Determination of maximum reversion of amorphous thermoplastics moulding materials</i> (Identical)

The related British Standard to ISO 2818:1980 is BS 2782:Method 930A:1977 “*Preparation of test specimens by machining*”, which is identical with the 1974 edition of ISO 2818. A revision of ISO 2818:1980 is in preparation and is expected to be more acceptable as a basis for revision of BS 2782:Method 930A:1977. Meanwhile, BS 2782:Method 930A:1977 is considered by the Technical Committee to be suitable for cross-reference for the purposes of BS 2782:Method 940A:1990.