

Method of testing

Plastics —

**Part 5: Optical and colour properties,
weathering —**

**Method 540D: Methods of exposure to
laboratory light sources —
General guidance**

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 to Technical Committee PRI/21, Testing of plastics, upon which the following bodies were represented:

- British Apparel and Textile Confederation
- British Plastics Federation
- British Telecommunications plc
- Department of the Environment (Building Research Establishment)
- Department of Trade and Industry (National Physical Laboratory)
- Electrical and Electronic Insulation Association (BEAMA Ltd.)
- GAMBICA (BEAMA Ltd.)
- Institute of Materials
- Ministry of Defence
- Packaging and Industrial Films Association
- Pira International
- RAPRA Technology Ltd.
- Royal Society of Chemistry

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The following BSI references relate to the work on this standard:
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Amendments issued since publication

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National foreword

This British Standard has been prepared by Technical Committee PRI/21. It is identical with ISO 4892-1:1994 *Plastics — Methods of exposure to laboratory light sources — Part 1: General guidance*, published by the International Organization for Standardization (ISO).

It is incorporated into BS 2782 *Methods of testing plastics — Part 11 Thermoplastic pipes, fittings and valves*, as Method 540D:1995, for association with related test methods for plastics materials. Together with method 540E:1995, method 540F:1995 and method 540G:1995, it constitutes a revision of

BS 2782-5:Method 540B:1982 (which is identical with ISO 4892:1981), which is now *obsolescent*.

This test method has been implemented for use for other fresh applications and to enable experience of the method to be gained for the revision or amendment of other national standards as practicable, but it should not be presumed to apply to any existing standard or specification which contains or makes reference to a different edition or method until that standard/specification has been amended or revised to make reference to this method and adjust any requirements as appropriate.

NOTE Because the time scale necessary to reassess any correlations between the use of the methods covered by ISO 4892 and the effects of natural weathering may require at least 2 years, the 1981 edition, as BS 2782-5:Method 540B:1982, will remain available as an obsolescent standard pending withdrawal as soon as a periodic review concludes that its retention is no longer appropriate.

Cross-references

Publication referred to	Corresponding British Standard
ISO 291:1977	BS 2782 <i>Methods of testing plastics</i> Part 0:1992 <i>Introduction</i> (Annex A is identical) Part 9 <i>Sampling and test specimen preparation</i> :
ISO 293:1986	Method 901A:1988 <i>Compression moulding test specimens of thermoplastic materials</i> (Identical)
ISO 295:1991	Method 902A:1992 <i>Compression moulding of test specimens of thermosetting materials</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 3167:1993	Method 931A:1993 <i>Preparation and use of multipurpose test specimens</i> (Identical) Part 5 <i>Optical and colour properties, weathering</i> :
ISO 4582:1980	Method 552A:1981 <i>Determination of changes in colour and variations in properties after exposure to daylight under glass, natural weathering or artificial light</i> (Identical)
ISO 4892-2:1994	Method 540E:1995 <i>Methods of exposure to laboratory light sources — Xenon-arc sources</i> (Identical)
ISO 4892-3:1994	Method 540F:1995 <i>Methods of exposure to laboratory light sources — Fluorescent UV lamps</i> (Identical)
ISO 4892-4:1994	Method 540G:1995 <i>Methods of exposure to laboratory light sources — Open-flame carbon-arc lamps</i> (Identical)

NOTE The revision of ISO 294:1975 is expected to result in a revision of BS 2782-9:Method 910A:1977, which is identical with ISO 294:1975. The revision of ISO 2818:1980 is expected to result in a revision of BS 2782-9:Method 930A:1977, which is identical to the 1974 edition of ISO 2818 because the 1980 edition of ISO 2818 was not acceptable to the UK. There is no corresponding British Standard to CIE Publication No. 85:1989.

WARNING. This British Standard, which is identical with ISO 4892-1:1994, does not necessarily detail all the precautions necessary to meet the requirements of the Health and Safety at Work etc. Act 1974. Attention should be paid to any appropriate safety precautions and the method should be operated only by trained personnel.

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 to iv, 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.