

Plastics — Thermomechanical analysis (TMA) —

Part 2: Determination of coefficient of linear thermal expansion and glass transition temperature

ICS 83.080.01

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents

AVA

Document Sharing Hub

National foreword

This British Standard reproduces verbatim ISO 11359-2:1999 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee PRI/21, Testing of plastics, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

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, the ISO title page, pages ii and iii, a blank page, pages 1 to 10, an inside back cover and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

This British Standard, having been prepared under the direction of the Sector Committee for Materials and Chemicals, was published under the authority of the Standards Committee and comes into effect on 15 November 1999

© BSI 11-1999

ISBN 0 580 35346 X

Amendments issued since publication

Amd. No.	Date	Comments

**Plastics — Thermomechanical analysis
(TMA) —**

Part 2:

Determination of coefficient of linear thermal
expansion and glass transition temperature

Plastiques — Analyse thermomécanique (TMA) —

*Partie 2: Détermination du coefficient de dilatation thermique linéique et de
la température de transition vitreuse*



Contents

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Principle..... 3

5 Apparatus 3

6 Test specimens 3

7 Procedure 3

8 Expression of results 4

9 Test report 7

Annex A (informative) Precision and reproducibility data for the determination of the mean coefficient of linear thermal expansion using TMA 9

Bibliography 10

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11359-2 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 5, *Physical-chemical properties*.

ISO 11359 consists of the following parts, under the general title *Plastics — Thermomechanical analysis*:

¾ *Part 1: General principles*

¾ *Part 2: Determination of coefficient of linear thermal expansion and glass transition temperature*

¾ *Part 3: Determination of penetration temperature*

Annex A of this part of ISO 11359 is given for information only.

