

This is a preview of "ISO 11358-2:2014". [Click here to purchase the full version from the ANSI store.](#)

Second edition
2014-06-15

Plastics — Thermogravimetry (TG) of polymers —

Part 2: Determination of activation energy

*Plastiques — Thermogravimétrie (TG) des polymères —
Partie 2: Détermination de l'énergie d'activation*



Reference number
ISO 11358-2:2014(E)

© ISO 2014

This is a preview of "ISO 11358-2:2014". Click here to purchase the full version from the ANSI store.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 11358-2:2014". Click here to purchase the full version from the ANSI store.

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Apparatus	2
6 Mass and temperature calibration	2
6.1 Mass calibration.....	2
6.2 Temperature calibration.....	2
7 Test specimens	2
8 Procedure	3
8.1 General.....	3
8.2 Non-oxidative reactions.....	3
8.3 Oxidative reactions.....	3
9 Expression of results	3
9.1 Graphical presentation.....	3
9.2 Determination of activation energy.....	3
10 Precision	4
11 Test report	5
Bibliography	6

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 61, *Plastics*, Subcommittee SC 5, *Physical and chemical properties*.

This second edition cancels and replaces the first edition (ISO 11358-2:2005), of which it constitutes a minor revision. The following are the changes:

- limitation of the term "activation energy" to gas-phase reactions was deleted;
- normative references were changed into undated ones;
- the term "pan" was replaced by "crucible" in the whole text;
- in line with [3.2](#), the term "energy of activation" was replaced with "activation energy" (see [9.2](#)).

ISO 11358 consists of the following parts, under the general title *Plastics — Thermogravimetry (TG) of polymers*:

- *Part 1: General principles*
- *Part 2: Determination of activation energy*
- *Part 3: Determination of the activation energy using the Ozawa-Friedman plot and analysis of the reaction kinetics*