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Plastics — Differential scanning calorimetry (DSC) —

Part 5: Determination of characteristic reaction-curve temperatures and times, enthalpy of reaction and degree of conversion

Plastiques — Analyse calorimétrique différentielle (DSC) —

Partie 5: Détermination des températures et temps caractéristiques de la courbe de réaction, de l'enthalpie de réaction et du degré de transformation



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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

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Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Apparatus and materials	2
6 Test specimens	2
7 Test conditions and specimen conditioning	2
8 Calibration	2
9 Procedure	2
9.1 General.....	2
9.2 Temperature-scanning method.....	2
9.3 Isothermal method.....	2
10 Determination of results	4
10.1 Determination of characteristic temperatures and enthalpy of reaction (temperature-scanning method).....	4
10.2 Determination of characteristic times and enthalpy of reaction (isothermal method).....	4
10.3 Determination of degree of conversion.....	6
11 Precision	9
12 Test report	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 2.

The main task of technical committees is to prepare International Standards. 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.

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.

ISO 11357-5 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 5, *Physical-chemical properties*.

This second edition cancels and replaces the first edition (ISO 11357-5:1999), which has been technically revised. Significant technical changes are the following:

- adaption of definition of characteristic temperatures and endo-/exothermic direction in accordance with ISO 11357-1;
- revision of determination of results;
- revision of test report.

ISO 11357 consists of the following parts, under the general title *Plastics — Differential scanning calorimetry (DSC)*:

- *Part 1: General principles*
- *Part 2: Determination of glass transition temperature and glass transition step height*
- *Part 3: Determination of temperature and enthalpy of melting and crystallization*
- *Part 4: Determination of specific heat capacity*
- *Part 5: Determination of characteristic reaction-curve temperatures and times, enthalpy of reaction and degree of conversion*
- *Part 6: Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT)*
- *Part 7: Determination of crystallization kinetics*