

SLOVENSKI STANDARD
kSIST FprEN ISO 11357-5:2014
01-februar-2014

**Polimerni materiali - Diferenčna dinamična kalorimetrija (DSC) - 5. del:
Ugotavljanje karakterističnih reakcijskih temperatur in časov, entalpije reakcije in
stopnje pretvorbe (ISO 11357-5:2013)**

Plastics - Differential scanning calorimetry (DSC) - Part 5: Determination of characteristic reaction-curve temperatures and times, enthalpy of reaction and degree of conversion (ISO 11357-5:2013)

Kunststoffe - Dynamische Differenz-Thermoanalyse (DSC) - Teil 5: Bestimmung von charakteristischen Reaktionstemperaturen und -zeiten, Reaktionsenthalpie und Umsatz (ISO 11357-5:2013)

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 (ISO 11357-5:2013)

Ta slovenski standard je istoveten z: FprEN ISO 11357-5

ICS:

83.080.01	Polimerni materiali na splošno	Plastics in general
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kSIST FprEN ISO 11357-5:2014	en,fr,de
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
FprEN ISO 11357-5

September 2013

ICS 83.080.01

English Version

**Plastics - Differential scanning calorimetry (DSC) - Part 5:
Determination of characteristic reaction-curve temperatures and
times, enthalpy of reaction and degree of conversion (ISO
11357-5:2013)**

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 (ISO 11357-5:2013)

Kunststoffe - Dynamische Differenz-Thermoanalyse (DSC)
- Teil 5: Bestimmung von charakteristischen
Reaktionstemperaturen und -zeiten, Reaktionsenthalpie
und Umsatz (ISO 11357-5:2013)

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 249.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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<https://s> Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation. 014

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Foreword

The text of ISO 11357-5:2013 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as FprEN ISO 11357-5:2013 by Technical Committee CEN/TC 249 "Plastics" the secretariat of which is held by NBN.

This document is currently submitted to the Unique Acceptance Procedure.

Endorsement notice

The text of ISO 11357-5:2013 has been approved by CEN as FprEN ISO 11357-5:2013 without any modification.

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INTERNATIONAL
STANDARD

ISO
11357-5

Second edition
2013-03-15

**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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Reference number
ISO 11357-5:2013(E)

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Published in Switzerland

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ISO 11357-5:2013(E)

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*