
**Polimerni materiali - Dinamična diferenčna kalorimetrija (DSC) - 3. del:
Ugotavljanje temperature in entalpije taljenja in kristalizacije (ISO 11357-3:2011)**

Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization (ISO 11357-3:2011)

Kunststoffe - Dynamische Differenzkalorimetrie (DDK) - Teil 3: Bestimmung der Schmelz- und Kristallisationstemperatur und der Schmelz- und Kristallisationsenthalpie (ISO 11357-3:2011)

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Plastiques - Analyse calorimétrique différentielle (DSC) - Partie 3: Détermination de la température et de l'enthalpie de fusion et de cristallisation (ISO 11357-3:2011)

Ta slovenski standard je istoveten z: EN ISO 11357-3:2013

ICS:

17.200.10	Toplota. Kalorimetrija	Heat. Calorimetry
83.080.01	Polimerni materiali na splošno	Plastics in general

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EN ISO 11357-3

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English Version

**Plastics - Differential scanning calorimetry (DSC) - Part 3:
Determination of temperature and enthalpy of melting and
crystallization (ISO 11357-3:2011)**

Plastiques - Analyse calorimétrique différentielle (DSC) -
Partie 3: Détermination de la température et de l'enthalpie
de fusion et de cristallisation (ISO 11357-3:2011)

Kunststoffe - Dynamische Differenz-Thermoanalyse (DSC)
- Teil 3: Bestimmung der Schmelz- und
Kristallisationstemperatur und der Schmelz- und
Kristallisationsenthalpie (ISO 11357-3:2011)

This European Standard was approved by CEN on 22 December 2012.

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This European Standard exists 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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Foreword

The text of ISO 11357-3:2011 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11357-3:2013 by Technical Committee CEN/TC 249 "Plastics" the secretariat of which is held by NBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2013, and conflicting national standards shall be withdrawn at the latest by July 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO 11357-3:2011 has been approved by CEN as a EN ISO 11357-3:2013 without any modification.

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INTERNATIONAL
STANDARD

ISO
11357-3

Second edition
2011-05-01

**Plastics — Differential scanning
calorimetry (DSC) —**

Part 3:

**Determination of temperature and
enthalpy of melting and crystallization**

Plastiques — Analyse calorimétrique différentielle (DSC) —

*Partie 3: Détermination de la température et de l'enthalpie de fusion et
de cristallisation*

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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 11357-3 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 11357-3:1999), which has been technically revised. It also incorporates the Amendment ISO 11357-3:1999/Amd 1:2005. The most important changes are the following:

- a specification of the preferred scanning rates of 10 K/min or 20 K/min has been given;
- Figure 1 has been updated to better reflect the profile of a real melting peak and γ -axis directions specified in ISO 11357-1.

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*
- *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*