

<b>STN</b>	<b>Plasty</b> <b>Diferenčná snímacia kalorimetria (DSC)</b> <b>Časť 3: Stanovenie teploty a entalpie tavenia a</b> <b>kryštalizácie (ISO 11357-3: 2018)</b>	<b>STN</b> <b>EN ISO 11357-3</b>  64 0748
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Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization (ISO 11357-3:2018)

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/18

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English Version

## Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization (ISO 11357-3:2018)

Plastiques - Analyse calorimétrique différentielle (DSC)  
- Partie 3: Détermination de la température et de  
l'enthalpie de fusion et de cristallisation (ISO 11357-  
3:2018)

Kunststoffe - Dynamische Differenz-Thermoanalyse  
(DSC) - Teil 3: Bestimmung der Schmelz- und  
Kristallisationstemperatur und der Schmelz- und  
Kristallisationsenthalpie (ISO 11357-3:2018)

This European Standard was approved by CEN on 24 February 2018.

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**EN ISO 11357-3:2018 (E)**

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## **European foreword**

This document (EN ISO 11357-3:2018) has been prepared by Technical Committee ISO/TC 61 “Plastics” in collaboration with 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of an identical text or by endorsement, at the latest by November 2018, and conflicting national standards shall be withdrawn at the latest by November 2018.

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

This document supersedes EN ISO 11357-3:2013.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### **Endorsement notice**

The text of ISO 11357-3:2018 has been approved by CEN as EN ISO 11357-3:2018 without any modification.

# INTERNATIONAL STANDARD

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## **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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## ISO 11357-3:2018(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.

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](http://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](http://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 voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

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

This third edition cancels and replaces the second edition (ISO 11357-3:2011), which has been technically revised. The main changes compared to the previous edition are as follows:

- the normative references in [Clause 2](#) have been updated;
- the sample mass is referring to polymer matrix;
- the procedure has been extended to cover materials with wider crystallisation ranges;
- the calculation of heats of transition has been clarified to include computer aided methods.

A list of all parts in the ISO 11357 series can be found on the ISO website.



# Plastics — Differential scanning calorimetry (DSC) —

## Part 3:

# Determination of temperature and enthalpy of melting and crystallization

## 1 Scope

This document specifies a method for the determination of the temperatures and enthalpies of melting and crystallization of crystalline or partially crystalline plastics.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 472, *Plastics — Vocabulary*

ISO 11357-1, *Plastics — Differential scanning calorimetry (DSC) — Part 1: General principles*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**