



**SLOVENSKI STANDARD**  
**SIST EN ISO 11357-8:2021**

**01-maj-2021**

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**Polimerni materiali - Diferenčna dinamična kalorimetrija (DSC) - 8. del:  
Ugotavljanje toplotne prevodnosti (ISO 11357-8:2021)**

Plastics - Differential scanning calorimetry (DSC) - Part 8: Determination of thermal conductivity (ISO 11357-8:2021)

Kunststoffe - Dynamische Differenz-Thermoanalyse (DSC) - Teil 8: Bestimmung der Wärmeleitfähigkeit (ISO 11357-8:2021)

Plastiques - Analyse calorimétrique différentielle (DSC) - Partie 8: Détermination de la conductivité thermique (ISO 11357-8:2021)

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**Ta slovenski standard je istoveten z: EN ISO 11357-8:2021**

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**ICS:**

83.080.01	Polimerni materiali na splošno	Plastics in general
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**SIST EN ISO 11357-8:2021**

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EUROPEAN STANDARD

EN ISO 11357-8

NORME EUROPÉENNE

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March 2021

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English Version

## Plastics - Differential scanning calorimetry (DSC) - Part 8: Determination of thermal conductivity (ISO 11357- 8:2021)

Plastiques - Analyse calorimétrique différentielle (DSC)  
- Partie 8: Détermination de la conductivité thermique  
(ISO 11357-8:2021)

Kunststoffe - Dynamische Differenz-Thermoanalyse  
(DSC) - Teil 8: Bestimmung der Wärmeleitfähigkeit  
(ISO 11357-8:2021)

This European Standard was approved by CEN on 25 January 2021.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (EN ISO 11357-8:2021) 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of an identical text or by endorsement, at the latest by September 2021, and conflicting national standards shall be withdrawn at the latest by September 2021.

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ISO  
11357-8

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

Part 8:

**Determination of thermal conductivity**

*Plastiques — Analyse calorimétrique différentielle (DSC) —*

*Partie 8: Détermination de la conductivité thermique*

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### Foreword

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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)).

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 5, *Physical-chemical properties*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 249, *Plastics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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## Introduction

The advantage of using DSC for measuring the thermal conductivity of plastics is that with the same instrument also the specific heat capacity can be obtained. This enables the determination of the thermal diffusivity by dividing the thermal conductivity by the density and specific heat capacity.

In addition, DSC instruments are widely used and available in almost all test institutes and labs. Hence, measurements of thermal conductivity can be done without need for procurement of an additional instrument.

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