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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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## Foreword

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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 *y*-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*