# INTERNATIONAL STANDARD

ISO 11357-5

> First edition 1999-12-01

# Plastics — Differential scanning calorimetry (DSC) —

### Part 5:

Determination of characteristic reactioncurve 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



Reference number ISO 11357-5:1999(E)

#### **PDF** disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

#### © ISO 1999

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Case postale 56 • CH-1211 Geneva 20 Tel. + 41 22 749 01 11 Fax + 41 22 734 10 79 E-mail copyright@iso.ch Web www.iso.ch

Printed in Switzerland

## **Contents** Page

Forew	vord	iv
1	Scope	1
2	Normative references	1
3	Definitions	1
4	Principle	2
5	Apparatus and materials	2
6	Test specimens	2
7	Test conditions and specimen conditioning	2
8	Calibration	2
9 9.1 9.2 9.3	Procedure General Temperature-scanning method Isothermal method	2
10 10.1 10.2	Expression of results  Determination of characteristic temperatures and enthalpy of reaction (temperature-scanning method)  Determination of characteristic times and enthalpy of reaction (isothermal method)	4
10.3	Determination of degree of conversion	5
11	Precision	8
12	Test report	8