ISO 11357-7:2015-08 (E)

Plastics - Differential scanning calorimetry (DSC) - Part 7: Determination of crystallization kinetics

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 2

5 Apparatus and materials 2

6 Test specimens 2

7 Test conditions and specimen conditioning 2

8 Calibration 2

9 Procedure 2
9.1 General 2
9.2 Loading the test specimen into the crucible 3
9.3 Insertion of the crucibles into the instrument 3
9.4 Melting of the polymer 3
9.5 Isothermal crystallization 3
9.6 Non-isothermal crystallization 4

10 Expression of results 5
10.1 General 5
10.2 Methods of determination of crystallization kinetics 5
10.2.1 Isothermal crystallization 5
10.2.2 Non-isothermal crystallization 7

11 Precision 8

12 Test report 8

Annex A (informative) Equations for crystallization kinetics of polymers 9

Bibliography 11