

ISO 11357-7:2022-03 (E)

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

Contents		Page
Foreword		iv
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 Principle		2
5 Apparatus and materials		2
6 Test specimens		2
7 Test conditions and specimen conditioning		2
8 Calibration		2
8.1 Calibration in heating mode.....		2
8.2 Symmetry of temperature scale.....		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.....		5
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) Formulae for crystallization kinetics of polymers		9
Bibliography		11