ISO 11357-4:2014-06 (E)

Plastics - Differential scanning calorimetry (DSC) - Part 4: Determination of specific heat capacity

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Principle 2
4.1 General 2
4.2 Continuous-scanning method 3
4.3 Stepwise-scanning method 4

5 Apparatus 4

6 Test specimen 4

7 Test conditions and specimen conditioning 4

8 Procedure 4
8.1 Selection of crucibles 4
8.2 Setting up the apparatus and adjustment of isothermal baselines 5
8.3 Measurement of specific heat capacity of calibration material 6
8.4 Specimen run 7

9 Determination of specific heat capacities 7
9.1 Calculation of specific heat capacities 7
9.2 Numerical rounding of the results 7

10 Precision and bias 8

11 Test report 8

Annex A (informative) An approximate expression of the specific heat capacityof pure -alumina [3] to [5] 9

Bibliography 12