

ISO 22007-1:2017-10 (E)

Plastics - Determination of thermal conductivity and thermal diffusivity - Part 1: General principles

Contents	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principles	2
5 Test methods	4
5.1 General	4
5.2 Hot-wire method	6
5.3 Line-source method	7
5.4 Transient plane source method	8
5.5 Temperature wave analysis method	8
5.6 Laser flash method	9
5.7 Steady-state methods	10
5.7.1 Guarded hot-plate method	10
5.7.2 Guarded heat flow meter method and heat flow meter method	11
6 Test report	12
Annex A (informative) Sources of uncertainty on measuring thermal transport properties	13
Bibliography	18