

DIN EN ISO 22007-1:2018-03 (E)

Plastics - Determination of thermal conductivity and thermal diffusivity - Part 1: General principles (ISO 22007-1:2017)

Contents		Page
Foreword		3
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principles	6
5	Test methods	8
	5.1 General	8
	5.2 Hot-wire method	10
	5.3 Line-source method	11
	5.4 Transient plane source method	12
	5.5 Temperature wave analysis method	12
	5.6 Laser flash method	13
	5.7 Steady-state methods	14
	5.7.1 Guarded hot-plate method	14
	5.7.2 Guarded heat flow meter method and heat flow meter method	15
6	Test report	16
Annex A (informative) Sources of uncertainty on measuring thermal transport properties		17
Bibliography		22