

DIN EN ISO 22007-4:2017-11 (E)

Plastics - Determination of thermal conductivity and thermal diffusivity - Part 4: Laser flash method (ISO 22007-4:2017)

Contents		Page
European foreword		3
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	6
5	Apparatus	6
6	Test specimen	9
6.1	Shape and dimension of the specimen	9
6.2	Preparation and conditioning of test specimen	9
6.3	Coating the specimen	9
7	Calibration and verification	10
7.1	Calibration of apparatus	10
7.2	Verification of apparatus	10
8	Procedure	10
9	Data analysis	12
10	Uncertainty	13
11	Test report	13
Annex A (informative) Correction for finite pulse duration		14
Annex B (informative) Alternative methods of calculating thermal diffusivity		15
Annex C (normative) Samples and test specimen preparation for injection mouldable thermoplastics and thermosets		16
Bibliography		20