

DIN EN ISO 22007-2:2022-09 (E)

Plastics - Determination of thermal conductivity and thermal diffusivity - Part 2: Transient plane heat source (hot disc) method (ISO 22007-2:2022)

Contents	Page
European foreword	3
Foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Principle	8
5 Apparatus	8
6 Test specimens	10
6.1 Bulk specimens	10
6.2 Anisotropic bulk specimens	11
6.3 Slab specimens	11
6.4 Thin-film specimens.....	12
7 Procedure	12
8 Calculation of thermal properties	14
8.1 Bulk specimens	14
8.2 Anisotropic bulk specimens	17
8.3 Slab specimens	18
8.4 Thin-film specimens.....	19
8.5 Low thermally conducting specimens	20
8.5.1 Introductory remarks.....	20
8.5.2 Low thermally conducting bulk specimens	20
8.5.3 Low thermally conducting anisotropic bulk specimens	22
8.5.4 Low thermally conducting thin-film specimen	22
9 Calibration and verification	22
9.1 Calibration of apparatus	22
9.2 Verification of apparatus	23
10 Precision and bias	23
11 Test report	24
Bibliography	25