

ISO 22007-2:2015-08 (E)

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

Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	3
5	Apparatus	3
6	Test specimens	5
6.1	Bulk specimens	5
6.2	Anisotropic bulk specimens	6
6.3	Slab specimens	6
6.4	Thin-film specimens	7
7	Procedure	7
8	Calculation of thermal properties	9
8.1	Bulk specimens	9
8.2	Anisotropic bulk specimens	12
8.3	Slab specimens	13
8.4	Thin-film specimens	14
8.5	Low thermally conducting specimens	15
8.5.1	Introductory remarks	15
8.5.2	Low thermally conducting bulk specimens	15
8.5.3	Low thermally conducting anisotropic bulk specimens	17
8.5.4	Low thermally conducting thin-film specimen	17
9	Calibration and verification	17
9.1	Calibration of apparatus	17
9.2	Verification of apparatus	18
10	Precision and bias	18
11	Test report	19
Bibliography		20