

ISO 15791-1:2014-01 (E)

Plastics - Development and use of intermediate-scale fire tests for plastics products - Part 1: General guidance

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Types of plastics and typical products	2
4.1	Generic types	2
4.2	Typical applications	2
4.3	Composites	3
4.4	End-use conditions	3
5	Fire scenarios	3
5.1	General	3
5.2	Ignition stage	3
5.3	Fire growth stage	3
5.4	Large room fire	4
6	Thermal characteristics of ignition sources	5
7	Design requirements	10
8	Guidance for intermediate scale tests	11
9	Examples of intermediate-scale tests for plastics products	12
9.1	IEC 61034-2 -- 3 m cube test	12
9.2	ISO 5658-4 -- Vertical flame spread test	12
9.3	ISO 14696 -- Intermediate-scale calorimeter (ICAL) test	12
9.4	EN 13823 -- Single burning item (SBI) test	12
9.5	ISO 24473 -- Open calorimetry	13
9.6	ISO 21367 -- Medium scale fire test for plastics	13
10	Test report	13
Annex A (normative)	Different scale fire tests for obtaining information on fire performance of material and product	14
Annex B (informative)	Example of reference scenarios	17
Bibliography		18