

DIN EN ISO 15791-1:2014-05 (E)

Plastics - Development and use of intermediate-scale fire tests for plastics products - Part 1: General guidance (ISO 15791-1:2014)

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Types of plastics and typical products	6
4.1	Generic types	6
4.2	Typical applications	6
4.3	Composites	7
4.4	End-use conditions	7
5	Fire scenarios	7
5.1	General	7
5.2	Ignition stage	7
5.3	Fire growth stage	7
5.4	Large room fire	8
6	Thermal characteristics of ignition sources	9
7	Design requirements	14
8	Guidance for intermediate scale tests	15
9	Examples of intermediate-scale tests for plastics products	16
9.1	IEC 61034-2 -- 3 m cube test	16
9.2	ISO 5658-4 -- Vertical flame spread test	16
9.3	ISO 14696 -- Intermediate-scale calorimeter (ICAL) test	16
9.4	EN 13823 -- Single burning item (SBI) test	16
9.5	ISO 24473 -- Open calorimetry	17
9.6	ISO 21367 -- Medium scale fire test for plastics	17
10	Test report	17
Annex A (normative) Different scale fire tests for obtaining information on fire performance of material and product		18
Annex B (informative) Example of reference scenarios		21
Bibliography		22