

ISO/TS 15791-2:2022-11 (E)

Plastics - Development and use of intermediate-scale fire tests for plastics products - Part 2: Use of intermediate-scale tests for semi-finished and finished products

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Different applications of intermediate-scale fire tests	2
4.1	General	2
4.2	Pre-selection tests on semi-finished products	3
4.3	End-product tests	3
5	Types of plastics and typical products	4
5.1	Generic types	4
5.2	Typical products	4
5.2.1	General	4
5.2.2	Complex products ready for assembly for an end-use application	4
5.2.3	Profiled products	5
6	Method of preparation and mounting of test specimens	5
6.1	General method of preparation and mounting of test specimens	5
6.1.1	Finished products	5
6.1.2	Substrates	5
6.1.3	Backing boards	5
6.1.4	Joint	6
6.1.5	Fixing of test specimens to substrates	6
6.1.6	Air gap between test specimen and backing board	6
6.2	Preparation and mounting method for specific types of products	7
6.2.1	Boards/sheets	7
6.2.2	Surface coatings	7
6.2.3	Joints and sealing materials for joints and other arrangements	7
6.2.4	Insulation materials	7
6.2.5	Composites	8
6.2.6	Pipe and pipe insulation	8
6.2.7	Roof lights and light diffusers	9
6.2.8	Curtain walling	9
7	Matters relevant for semi-finished or finished plastic products	9
7.1	Sample conditioning and test specimen preparation	9
7.2	Practical advice on operating procedures in the event of test specimen collapse or deformation on exposure to heat from standard ignition sources	9
7.3	Problem-solving approaches to complications caused by melting effects in thermoplastics	10
7.4	Intumescence	10
7.5	Slumping of the thermoplastic sheets	10
7.6	Flaming debris	10
7.7	Profiled products	11
Annex A (normative)	Preparation and use of test specimens with relevance to product end- use conditions	12
Bibliography		14