

ISO 11810:2015-12 (E)

Lasers and laser-related equipment - Test method and classification for the laser resistance of surgical drapes and/or patient protective covers - Primary ignition, penetration, flame spread and secondary ignition

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	3
5	Significance and use of the test	3
6	Apparatus	4
6.1	General	4
6.2	Containment box	5
6.3	Specimen holder	5
6.4	Laser system	9
6.4.1	Laser	9
6.4.2	Power meter	9
6.5	Gas supply system	9
6.6	Environment	9
6.6.1	Ambient air conditions	9
6.6.2	Oxygen enriched atmospheres	9
6.7	Smoke evacuation device	10
7	Reagents and materials	10
8	Preparation of specimens	10
8.1	Sampling	10
8.1.1	Single use products	10
8.1.2	Reusable products	10
8.2	Specimens	10
8.3	Quantities	10
8.4	Conditioning	10
9	Preparation of apparatus	11
10	Test methods	11
10.1	General conditions	11
10.2	Primary ignition and penetration	11
10.2.1	Principle	11
10.2.2	Testing procedure	14
10.3	Secondary ignition	15
10.3.1	Principle	15
10.3.2	Testing procedure	16
11	Classification	18

11.1	General	18
11.2	Laser-induced primary ignition (I)	18
11.3	Resistance to laser penetration (P)	18
11.4	Laser-induced secondary ignition (SI)	18
12	Test report	19
	Bibliography	20