

ISO 9073-18:2023-11 (E)

Nonwovens - Test methods - Part 18: Determination of tensile strength and elongation at break using the grab tensile test

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	3
5	Reagents and materials	3
6	Apparatus	3
7	Sampling	4
7.1	Lot sampling	4
7.2	Laboratory sample	5
7.3	Test specimens	5
8	Conditioning	5
9	Preparation of test specimens	6
9.1	General	6
9.2	Dimensions	6
9.3	Marking on the test specimen	6
9.4	Wet test specimens	6
10	Preparation, calibration and verification of apparatus	7
10.1	Tensile testing machine	7
10.2	Clamping system	7
10.3	Verification of the total operating system of the apparatus	7
11	Procedure	8
11.1	Gauge length	8
11.2	Rate of extension	8
11.3	Mounting of test specimens	8
11.4	Operation	8
11.4.1	General	8
11.4.2	Slippage	8
11.4.3	Jaw breaks	9
12	Calculation	9
12.1	Breaking force	9
12.2	Apparent elongation	9
13	Expression of results	9
14	Precision and bias	9
15	Test report	9

Annex A (informative) Possible causes of low precision when grab strength testing	11
Bibliography	12