DIN EN ISO 9073-18:2024-11 (E)

Nonwovens - Test methods - Part 18: Determination of tensile strength and elongation at break using the grab tensile test (ISO 9073-18:2023, Corrected version 2024-05)

Contents

Page

European foreword ... **3**

Foreword ... **4**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Principle ... **8**

5 Reagents and materials ... **8**

6 Apparatus ... **8**

7 Sampling ... **9**
7.1 Lot sampling ... 9
7.2 Laboratory sample ... 10
7.3 Test specimens ... 10

8 Conditioning ... **10**

9 Preparation of test specimens ... **11**
9.1 General ... 11
9.2 Dimensions ... 11
9.3 Marking on the test specimen ... 11
9.4 Wet test specimens ... 11

10 Preparation, calibration and verification of apparatus ... **11**
10.1 Tensile testing machine ... 11
10.2 Clamping system ... 12
10.3 Verification of the total operating system of the apparatus ... 12

11 Procedure ... **12**
11.1 Gauge length ... 12
11.2 Rate of extension ... 13
11.3 Mounting of test specimens ... 13
11.4 Operation ... 13
11.4.1 General ... 13
11.4.2 Slippage ... 13
11.4.3 Jaw breaks ... 13

12 Calculation ... **14**
12.1 Breaking force ... 14
12.2 Apparent elongation ... 14

13 Expression of results ... **14**

14 Precision and bias ... **14**

15 Test report ... **14**

Annex A (informative) **Possible causes of low precision when grab strength testing** ... **16**

Bibliography ... **17**