

ISO 24180:2021-12 (E)

Textiles - Synthetic filament yarns - Electrostatic propensity evaluation by measuring electrical resistance

Contents	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Apparatus	2
5.1 DC high-resistance meter.....	2
5.2 Insulating specimen holder (see Figure 1).....	2
5.3 Tensioning weight.....	2
6 Atmosphere for conditioning and testing	2
7 Preparation of test specimens	3
7.1 Preparation of specimens.....	3
7.2 Conditioning.....	3
7.2.1 Pre-conditioning.....	3
7.2.2 Conditioning.....	3
8 Test procedure	3
8.1 Tension for the test specimen.....	3
8.2 Test specimen loading.....	3
8.3 Determination of electrical resistance.....	4
9 Calculation and expression of results	4
9.1 Resistance per unit length.....	4
9.2 Volume resistivity.....	4
9.3 Expression of results.....	4
9.4 Precision.....	5
10 Test report	5
Annex A (informative) Average density of common synthetic fibres	6
Annex B (informative) Precision experiments	7
Bibliography	9