

ISO 105-B06:2020 (E)

Textiles — Tests for colour fastness — Part B06: Colour fastness and ageing to artificial light at high temperatures: Xenon arc fading lamp test

Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
4.1	Light fastness test
4.2	Ageing test
5	Reference materials and apparatus
5.1	Reference materials
5.1.1	General
5.1.2	References 1 to 8
5.1.3	References L2 and L4
5.2	Apparatus
5.2.1	Exposure apparatus
5.2.2	Optical light source and filter system
5.2.3	Radiometer for monitoring the exposure conditions
5.2.4	Temperature sensors
5.2.4.1	Black-standard thermometer (BST) (for sets of conditions 1 to 3)
5.2.4.2	Black-panel thermometer (BPT) (for sets of conditions 5 and 6)
5.2.5	Opaque cardboard
5.2.6	Grey scale for assessing change in colour
5.2.7	Computerized spectral colour-measuring instrument
5.2.8	Polyester (PES) nonwoven fabric
6	Preparation of specimens and exposure card
7	Procedure
7.1	Exposure conditions
7.2	Setting the exposure conditions for set No. 3
7.3	Exposure methods
7.3.1	General
7.3.2	Exposure Method 1 (end point determined by change in colour in the specimen)
7.3.3	Exposure Method 2 (end point determined by change in colour of reference)
7.3.4	Exposure Method 3 (end point determined on the ageing test of 4.2)
7.3.5	Exposure Method 4 (end point determined on radiant energy)
8	Assessment of colour fastness to light
9	Test report
Annex A	(normative) Exposure methods and optical filter types
A.1	Exposure methods and optical filter types
Annex B	(normative) Apparatus for determining colour fastness and ageing with air-cooled xenon arc lamps
B.1	Description and condition of use
B.2	Temperature and humidity control
B.3	Monitoring/controlling radiometer

Annex C (normative) Apparatus for determining colour fastness and ageing with water-cooled xenon arc lamps

- C.1 Description and conditions of use**
- C.2 Temperature and humidity control**
- C.3 Monitoring/controlling radiometer**

Annex D (normative) Guidance on performing the test according to set of conditions No. 5 (in addition to requirements specified in Annex C)

- D.1 Setting up the apparatus**
- D.2 Usable positions on the rack**
- D.3 Positioning references**
- D.4 Use of references for statistical process control**

Page count: 17