DIN EN ISO 105-B06:2020-12 (E)

Textiles - Tests for colour fastness - Part B06: Colour fastness and ageing to artificial light at high temperatures: Xenon arc fading lamp test (ISO 105-B06:2020)

Contents

Page

European foreword 3

Foreword 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Principle 6
4.1 Light fastness test 6
4.2 Ageing test 6

5 Reference materials and apparatus 6
5.1 Reference materials 6
5.1.1 General 6
5.1.2 References 1 to 8 6
5.1.3 References L2 and L4 6
5.2 Apparatus 7
5.2.1 Exposure apparatus 7
5.2.2 Optical light source and filter system 7
5.2.3 Radiometer for monitoring the exposure conditions 7
5.2.4 Temperature sensors 8
5.2.5 Opaque cardboard 8
5.2.6 Grey scale for assessing change in colour 8
5.2.7 Computerized spectral colour-measuring instrument 8
5.2.8 Polyester (PES) nonwoven fabric 8

6 Preparation of specimens and exposure card 8

7 Procedure 9
7.1 Exposure conditions 9
7.2 Setting the exposure conditions for set No. 3 11
7.3 Exposure methods 11
7.3.1 General 11
7.3.2 Exposure Method 1 (end point determined by change in colour in the specimen) 11
7.3.3 Exposure Method 2 (end point determined by change in colour of reference) 11
7.3.4 Exposure Method 3 (end point determined on the ageing test of 4.2) 11
7.3.5 Exposure Method 4 (end point determined on radiant energy) 12

8 Assessment of colour fastness to light 12

9 Test report 13

Annex A (normative) Exposure methods and optical filter types 14

Annex B (normative) Apparatus for determining colour fastness and ageing with air-cooled xenon arc lamps 15

Annex C (normative) Apparatus for determining colour fastness and ageing with water- cooled xenon arc lamps 17

Annex D (normative) Guidance on performing the test according to set of conditions No. 5 (in addition to requirements specified in Annex C) 19

Bibliography 21