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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 2558.7-2014

Testing method of import and export functional textiles. Part 7: Luminescent properties of luminous fiber

进出口功能性纺织品检验方法 第7部分：夜光纤维发光性能

(English Translation)

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Foreword

SN/T 2558 "Importers functional textiles test methods" is divided into seven sections.

--- Part 1. UV resistance;

--- Part 2. negative ions;

--- Part 3. iron property;

--- Part 4. antibacterial properties of agar plate method;

--- Part 5. Determination of deodorizing rate detecting tube method;

--- Part 6. water vapor permeability;

--- Part 7. Luminous fiber luminescent properties.

This section SN/T 2558 Part 7.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

1 Scope

This section SN/T 2558 specifies the determination of luminescent fiber afterglow brightness and chromaticity coordinates, afterglow time of the test method.

This section applies to the import and export of textile raw materials luminous filament in aluminate system. Other types of luminescent fibers or item reference According to use.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

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GB/T 8170 repair value expressed about the rules and limit values and judgment CIE1931 standard colorimetric observer

3 Terms and Definitions

The following terms and definitions apply to this document.

Luminous fiber Polyester, polyamide, polypropylene substrates, such as adding rare earth aluminate luminescent materials, through special spinning process is made efficient energy storage Luminescent fibers.

Illumination iluminance Illuminance at a point on the surface is incident on the surface of the element that contains the point on the flux dPhiv, divided by the surface of the cell area dA provider to Ev He expressed in units of lux (lx).

Afterglow of afterglowluminance After the stop light, over time, luminous fiber brightness value at different times. L expressed in units of nits or candelas Per square meter (1nt = 1cd/m2).

Afterglow time After the stop light, the afterglow of the luminous fibers L decays to L>=0.32 x 10-3cd/m2 (minimum brightness of the human eye visible range) hold Continuous time. In T expressed in minutes (min).

Chromaticity coordinates in CIE1931 colorimetric system, CIExyY chromaticity diagram using the illumination parameters and Y color coordinates (x, y) to describe the color, which color Color coordinates (x, y) on a two-dimensional map for the specified color, x represents the red component, y represents a green component, (x, y) is the color chromaticity coordinate.

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