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SN

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 1901-2014

Replacing SN/T 1901-2007

**Import and export textile. Test method for identification of fibre.
Polyester fibres (polylactic acid fibre, polytrimethyleneterephthalate
fiber, polybutyleneterephthalate fibre)**

进出口纺织品纤维鉴别方法聚酯类纤维（聚乳酸、聚对苯二甲酸丙二醇酯聚对苯
二甲酸丁二醇酯）

(English Translation)

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Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and definitions
4 Principle
5 Reagents and test solution
6 Sample pretreatment method
7 Test
Appendix A (normative) of polylactic acid, polyethylene terephthalate, polyethylene terephthalate, polybutylene terephthalate fiber burner status Table
Appendix B (normative) polylactic acid, polyethylene terephthalate, poly (butylene terephthalate) fiber cross-section and Vertical surface morphology Table
Annex C (normative) polylactic acid, polyethylene terephthalate, polyethylene terephthalate, polybutylene terephthalate fiber chemical dissolution Performance Table
Annex D (normative) polylactic acid, polyethylene terephthalate, polyethylene terephthalate, polybutylene terephthalate fiber coloring reaction Table
Appendix E (normative) polylactic acid, polyethylene terephthalate, polyethylene terephthalate, polybutylene terephthalate fiber chlorine nitrogen Color reaction Table
Annex F (normative) polylactic acid, polyethylene terephthalate, polyethylene terephthalate, polybutylene terephthalate fiber melting point Table
Annex G (normative) polylactic acid, polyethylene terephthalate, polyethylene terephthalate, polybutylene terephthalate fiber IR Its main characteristic absorption bands Frequency Table
Annex H (normative) polylactic acid, polyethylene terephthalate, polyethylene terephthalate, polybutylene terephthalate fiber infrared absorption Spectra
Annex I (normative) polylactic acid, polyethylene terephthalate, polyethylene terephthalate, polybutylene terephthalate fiber Raman shift Laid
17 Characteristic peaks
Appendix J (normative) polylactic acid, polyethylene terephthalate, polyethylene terephthalate, polybutylene terephthalate fiber standard Raman Spectrum

Annex K (informative) mainly polyester fiber specific identification method

Foreword

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

Instead of the standard SN/T 1901-2007 "series identification method seven kinds of textile fibers." this standard compared with SN/T 1901-2007, the main differences are as follows.

--- Change the standard name is. import and export of textile fiber identification method of polyester fiber (polylactic acid, poly propylene Ester, polyethylene terephthalate, polybutylene terephthalate).

--- Modify the "1" and press FZ/T 01053.1-2009 preface, relating to the modification of the standard provides six qualitative identification method Title, adding "Raman spectroscopy", the scope of the standard changed to "This standard applies to polyester fiber (polylactic acid, polyethylene terephthalate Dicarboxylic acid, propylene glycol, polyethylene terephthalate, polybutylene terephthalate) qualitative identification. "

--- "3 Terms and definitions" will be changed to 3.1 polylactic acid fiber, 3.2 to polyethylene terephthalate fiber, 3.3 to Polyethylene terephthalate, polybutylene terephthalate fiber, 3.4 deleted.

--- In the "7 test", press FZ/T 01053.1-2009 preface, six kinds of modifications of the standard qualitative identification method involves providing said that; in the "7.7 Infrared Spectroscopy" principle 7.7.1 to increase "7.7.1.1 infrared absorption spectroscopy principle" "7.7.1.2 attenuated total reflection (ATR) principle" and "7.7.4.2 attenuated total reflection (ATR) method (reflection method)"; add "7.8 Raman Spectroscopy Method. "

--- Amend Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix F, Appendix G, Appendix H, Appendix I content. Increase polyparaphenylene Polybutylene terephthalate acid content; deleted soybean protein/PVA composite fiber, milk protein/polyacrylonitrile composite fiber Victoria, lyocell, bamboo fiber and chitin content; Appendix I will be replaced by "Annex I (normative) polylactic acid, polyethylene terephthalate Formic acid, propylene glycol, polyethylene terephthalate, polybutylene terephthalate fiber Raman shift peaks "; add" Appendix J (normative) polylactic Acid, polyethylene terephthalate, polyethylene terephthalate, polybutylene terephthalate fiber standard Raman spectrum, "and the original Annex I (capital Material appendix) to Annex K (informative) "The main polyester fiber specific identification method." this standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Zhejiang Exit Inspection and Quarantine.

Drafters of this standard. Wu Jian Jian, Zhao Hong Shan, Xie Weibin, Chen Qi Group, Sun Guojun.

This standard replaces the standards previously issued as follows.

--- SN/T 1901-2007.

Import and export of textile fiber identification method Polyester fiber (polylactic acid, polyethylene terephthalate Propylene glycol, polyethylene terephthalate, polybutylene terephthalate)

1 Scope

This standard provides for the polyester fibers eight qualitative identification methods. combustion, microscopy, dissolution method, coloring, chlorine-containing nitrogen was Color reaction, melting point, infrared spectroscopy, Raman spectroscopy.

This standard applies to polylactic acid, polyethylene terephthalate, poly (butylene terephthalate) qualitative identification of.

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.

GB/T 4146.1 Textiles chemical fiber - Part 1. generic name FZ/T 01057.1 Test method for identification of textile fibers - Part 1. General Description FZ/T 01057.2-2007 Test method for identification of textile fibers - Part 2. Combustion FZ/T 01057.3-2007 Test method for identification of textile fibers - Part 3. Microscopy FZ/T 01057.4-2007 Test method for identification of textile fibers - Part 4. dissolution method FZ/T 01057.5-2007 Test method for identification of textile fibers - Part 5. nitrogen chlorine colorimetric reaction FZ/T 01057.6-2007 Test method for identification of textile fibers Part 6. mp Law FZ/T 01057.8-2007 Test method for identification of textile fibers - Part 8. Infrared Spectroscopy SN/T 3236-2012 Test method for identification of textile fibers Raman spectroscopy

3 Terms and Definitions

GB/T 4146.1 and define the following terms and definitions apply to this document.

PLA fiber polylacticacidfibre Acronym PLA fibers. Using renewable raw material corn starch, wheat, fermented into lactic acid, and then by polymerization, melt spinning Fibers, is an aliphatic polyester fibers.

Polyethylene terephthalate fiber polytrimethy-leneterephthalatefibre Acronym PTT fibers. By 1,3-propanediol (PDO) and terephthalic acid (PTA) by esterification, condensation from

linear polymers, Melt spinning fibers made of, it is an aromatic polyester fibers.

Polyethylene terephthalate, polybutylene terephthalate fiber polybutyleneterephthalatefibre
Referred to as PBT fibers. It is composed of terephthalic acid (PTA) or dimethyl
terephthalate (DMT) and 1,4-butanediol after esterification condensation Linear polymers,
fibers made by melt spinning, is an aromatic polyester fibers.