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

GB/T 5881-2024

**Test methods for physical and chemical properties of ramie
fiber**

苧麻理化性能试验方法

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting is required. This document replaces GB/T 5881-1986 "Sampling methods for physicochemical properties of ramie", GB/T 5882-1986 "Breaking strength of ramie bundle fiber" GB/T 5883-1986 "Test method for moisture regain and moisture content of ramie", GB/T 5884-1986 "Test method for count of ramie fiber" GB/T 5885-1986 "Test method for whiteness of ramie fiber", GB/T 5886-1986 "Test method for breaking strength of ramie single fiber" GB/T 5887-1986 "Test method for ramie fiber length", GB/T 5888-1986 "Test method for ramie cellulose polymerization degree", GB/T 5889-1986 "Quantitative analysis method of chemical composition of ramie", GB/T 5881-1986, GB/T 5882-1986, GB/T 5883-1986, GB/T 5884-1986, GB/T 5885-1986, GB/T 5886-1986, GB/T 5887-1986, Compared with GB/T 5888-1986 and GB/T 5889-1986, in addition to structural adjustments and editorial changes, the main technical changes are as follows: Changed the scope (see Chapter 1);

a) Added terms and definitions (see Chapter 3);

b) The sampling methods and sampling quantity regulations for raw ramie, dried ramie, ramie balls, loose ramie and fallen ramie have been changed, and the sampling Steps (see Chapter 4, Chapter 2, Chapter 3, Chapter 4 and Chapter 5 of the 1986 Edition of GB/T 5881);

c) The test method for the sample to reach constant weight condition in the regain and

moisture content test was changed, and the sample drying time and value correction were increased. Approximately (see Chapter 5, Chapter 5 of the 1986 edition of GB/T 5883);

d) The whiteness test sample preparation method, test times, and sample quality have been changed; the whiteness coefficient of variation calculation formula has been added (see Chapter 6, Chapter 5 and Chapter 6 of GB/T 5885 (1986 edition);

e) The length test equipment and parameters, test methods and calculation formulas, result calculation and presentation have been changed (see Chapter 7, 1986 (Chapter 4, Chapter 5 and Chapter 6 of the (2016) GB/T 5887);

f) The test method and calculation formula of linear density test have been changed (see Chapter 8, Chapter 5 and Chapter 6 of the 1986 edition of GB/T 5884);

g) The equipment and parameters, test method and calculation formula, result calculation and presentation of single fiber breaking strength test have been changed (see Chapter 9, Chapter 4, Chapter 5 and Chapter 6 of GB/T 5886 (1986 Edition);

h) The instrument and parameters, test method and calculation formula, result calculation and presentation of the fiber bundle breaking strength test have been changed (see Chapter 10, Chapter 4, Chapter 5 and Chapter 6 of GB/T 5882 (1986 Edition);

i) The instrumentation and parameters, test methods and calculation formulas, result calculation and presentation of the chemical composition quantitative analysis method test have been changed. (See Chapter 11, Chapter 4 and Chapter 5 of GB/T 5889 (1986 Edition));

j) The instrument and parameters, test method and calculation formula, result calculation and presentation of fiber polymerization degree test have been changed (see Chapter 13, Chapter 4, Chapter 5 and Chapter 6 of GB/T 5888 (1986 Edition).

k) Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed and coordinated by the National Fiber Standardization Technical Committee (SAC/TC 513). This document was drafted by: Hunan Fiber Testing Institute, Sichuan Fiber Inspection Bureau, Donghua University, China Fiber Quality Monitoring Center Sichuan Zitong Linjiang Ramie Textile Co., Ltd., Hubei Fiber Inspection Bureau Xianning Branch, Changde Fiber Quality Monitoring Center, Hunan Huasheng Co., Ltd., Hunan Institute of Engineering, Daqing Branch of Heilongjiang Academy of Sciences. The main drafters of this document are. Hu Xiaorong, Sun Jin, Li Xian, Xu Guiyong, Gan Dan, Shu Guifang, Cao Qiaoli, Zhang Zuo, Zhao Ruifang, Zhang Bin, Du Long, Xiong Haiying, Yu Chongwen, Liu Fang, Chen Lingling, Tang Wenfeng, Chen Wen, Liu Sijie, Gao Shujing, Zhou Hengshu, Yu Danyao, Wu Dahong, Sun Yufeng, and Xiao Xiang. The previous versions of this document and the documents it replaces are as follows: First published in 1986 as GB/T 5881-1986, GB/T 5882-1986, GB/T 5883-1986, GB/T