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

FZ/T 07015-2021

**Technical specification for eco-design product assessment -
recycled polyester**

绿色设计产品评价技术规范 再生涤纶

(English Translation)

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Foreword

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

This standard is proposed by the Industry Department of China National Textile and Apparel Council.

This standard is under the jurisdiction of the Standardization Technical Committee of China National Textile and Apparel Council.

This standard was drafted. Fujian Baichuan Resource Regeneration Technology Co., Ltd., Zhejiang Tongkun New Materials Research Institute Co., Ltd., Zhejiang Haili Environmental Protection Technology Co., Ltd., Ningbo Dafa Chemical Fiber Co., Ltd., Yizheng Weiying Chemical Fiber Co., Ltd., Anhui Dongjin Resource Regeneration Technology Co., Ltd., Guangdong Qiusheng Resources Co., Ltd., Hangzhou Benma Chemical Fiber Spinning Co., Ltd., Zhejiang Jiaren New Materials Co., Ltd., Jiangsu Heng Ze Composite Materials Technology Co., Ltd., Zhejiang Lvyu Environmental Protection Co., Ltd., Hebei Jinyi Chemical Fiber Co., Ltd., and Liaoning Shengda Environmental Resources Group have Co., Ltd., Fujian Minruixin Synthetic Fiber Co., Ltd., Cixi Xingke Chemical Fiber Co., Ltd., Tongxiang Youtong New Material Co., Ltd., China Textile Textile Economic Research Center,

China Chemical Fiber Industry Association, Sichuan University, Chengdu Yike Environmental Technology Co., Ltd.

Introduction

To achieve high-quality and sustainable development of my country's economy and society, it is necessary to conscientiously implement the five major developments of "innovation, coordination, green, openness and sharing".

concept, speed up the supply of green product standards, promote green product evaluation, lead green production and green consumption, and promote the green and healthy development of the industry.

The "Overall Plan for the Reform of Ecological Civilization System" issued by the Central Committee of the Communist Party of China and the State Council proposes to "establish a unified green product system and divide the current the environmental protection, energy saving, water saving, recycling, low-carbon, regeneration, organic and other products established by the company are integrated into green products, and a unified green product standard is established.

standards, certification, identification and other systems".

The green design product evaluation standard starts from the product life cycle, and considers the selection of raw materials, energy consumption, environmental impact and product quality as a whole.

Quantity, health and safety and other attributes, taking into account energy saving, environmental protection, water saving, recycling, low carbon, regeneration and other aspects, select the impact on human health, ecological environment safety Typical indicators that are loud and closely related to product quality and performance are used as indicators for evaluating green products. The evaluation model adopts the method of self-declaration it can effectively reduce the burden on enterprises, fully reflect the concept of enterprises as the main body, and use market supervision to promote products that have obtained green labels.

It provides technical support for improving the effective supply of green ecological products in my country and promoting the supply-side structural reform.

Green Design Product Evaluation Technical Specifications Recycled Polyester

1 Scope

This standard gives the terms and definitions, evaluation requirements, and green design product self-evaluation report of recycled polyester life cycle green design evaluation.

Compilation requirements, product life cycle assessment report compilation requirements,

green design product judgment basis.

This standard applies to the green design evaluation of recycled polyester products produced by physical and chemical processes, including waste polyester (PET) and its products are processed into recycled polyester bottle flakes, foam, chips and other shapes of primary particles; recycled polyester long Silk (including pre-oriented yarn, fully drawn yarn, stretch textured yarn), short fiber (including two-dimensional, three-dimensional, cotton, wool).

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2589 General Principles of Comprehensive Energy Consumption Calculation GB/T 4146.1 Textile Chemical Fiber Part 1: Generic Name GB/T 4146.2 Textile Chemical Fiber Part 2: Product Terminology GB 17167 General Rules for the Equipping and Management of Energy Measuring Instruments for Energy Consumption Units GB/T 17593.2 Determination of Heavy Metals in Textiles Part 2: Inductively Coupled Plasma Atomic Emission Spectrometry GB 18597 Hazardous Waste Storage Pollution Control Standard GB 18599 General Industrial Solid Waste Storage and Landfill Pollution Control Standard GB/T 18820 General Rules for the Compilation of Water Intake Quotas for Industrial Enterprises GB/T 19001 Quality Management System Requirements GB/T 23331 Energy Management System Requirements and Guidelines for Use GB/T 24001 Environmental Management System Requirements and Guidelines for Use GB/T 24040 Environmental Management Life Cycle Assessment Principles and Framework GB/T 24044 Environmental Management Life Cycle Assessment Requirements and Guidelines GB 24789 General rules for the provision and management of water measuring instruments for water units GB/T 32161 General Principles of Eco-design Product Evaluation HJ535 Determination of ammonia nitrogen in water quality by Nessler reagent spectrophotometry HJ828 Determination of chemical oxygen demand of water quality by dichromate method

3 Terms and Definitions

GB/T 4146.1, GB/T 4146.2, GB/T 24040, GB/T 24044, GB/T 32161 and the following terms and definitions applies to this document.

green design eco-design According to the concept of the whole life cycle, the selection of raw materials, production, sales, use, recycling, processing, etc. are systematically considered in the product design and development stage.

The impact of each link on resources and the environment, and strive to minimize resource consumption during the entire life cycle of products, use as little or no use as possible