

ICS 13.020.10

CCS Z 04

FZ

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

FZ/T 07014-2021

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

绿色设计产品评价技术规范 聚酯涤纶

(English Translation)

Issued on: January 1, 1970

Implemented on: January 1, 1970

**Issued by: Ministry of Industry and Information Technology of the
People's Republic of China**

Table of Contents

Preface
Introduction
1 Scope
2 Normative references
3 Terms and Definitions
4 Evaluation Requirements
5 Requirements for Compilation of Green Design Self-Assessment Report
6 Requirements for preparation of product life cycle assessment report
7 Judgment basis for green design products
Appendix A (Normative Appendix) Index Calculation Method and Yield Conversion Method
Appendix B (Normative Appendix) Life Cycle Assessment Method for Polyester Polyester
Appendix C (Informative Appendix) Life Cycle Field Data Collection Checklist Table
Appendix D (Informative Appendix) Supporting Information Collection Form
Appendix E (Informative Appendix) Life Cycle Assessment Report Compilation Outline

Foreword

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

This standard is proposed and managed by China National Textile and Apparel Council.

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 quality of my country's products and promoting supply-side reforms.

Green Design Product Evaluation Technical Specification Polyester Polyester

1 Scope

This standard specifies the terms and definitions, evaluation requirements, evaluation methods and life cycle evaluation of polyester life cycle green design evaluation Report preparation method.

This standard applies to polyester green design evaluation, including polyester chips (PET), filaments (including pre-oriented textured yarns, industrial filaments) and staple fibers.

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 4146.2-2017 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 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

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.

Polyester Chip (PET) Refers to a resin composed of linear macromolecules containing at least 85% (mass fraction) of diol terephthalate in the molecular chain.

filament

Refers to a long continuous length of single or multiple strands, the length is generally measured in kilometers.

[GB/T 4146.2-2017, Definition 3.1]