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

GB/T 5326-2025

Replacing GB/T 5326-2009

**Printed and dyed cotton / polyethylene terephthalate (PET)
blended fabric**

棉与涤纶混纺印染布

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Foreword

SAC/TC 209 is in charge of this English translation. In case of any doubt about the contents of the English translation, the Chinese original shall be considered authoritative.

This document is drafted in accordance with the rules given in the GB/T 1.1-2020 Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents.

This document replaces the GB/T 5326-2009 Combed printed or dyed polyester/cotton blended fabrics. In addition to structural adjustments and a number of editorial changes, the following technical deviations have been made with respect to the GB/T 5326-2009.

Revised the scope (see Clause 1, Clause 1 of the 2009 edition).

Added the evaluation items of deviation rate of mass per unit area and fuzzing and pilling in inherent quality (see Table 1, Table 1 of the 2009 edition).

Revised the evaluation criteria for weft count deviation rate, fibre content deviation, breaking strength, tear strength, dimensional change in washing, and color fastness (see

Table 1, Table 1 of the 2009 edition).

Revised the evaluation criteria for width deviation, color difference, skewness, and local defects in appearance quality (see Table 2, Table 2 and Table 4 of the 2009 edition).

Deleted the scoring rules for local defects, the scoring explanation of local defects, and the requirements that defects are not allowed in superior products (see subclause 5.3.2, 5.3.3, 5.3.5 of the 2009 edition).

Revised the washing procedure in the test method for dimensional change in washing (see subclause 6.6, Subclause 6.1.5 of the 2009 edition).

Deleted the inspection conditions and methods for appearance quality (see subclause 6.2 of the 2009 edition).

Attention is drawn to the possibility that some of the elements of this document may be subject to patent rights. The issuing body of this document shall not be held responsible for identifying any or all such patent rights.

This document was proposed by China National Textile and Apparel Council.

This document was prepared by SAC/TC 209 National Technical Committee 209 on Textiles of Standardization Administration of China.

The previous editions replaced by this document are as follows: The first edition was issued in 1989 as GB 5326-1989. The first revision was in 1997, and the second was in 2009; this is the third revision.

1 Scope

China's national standard for the printed and dyed woven fabric made from blended cotton and polyester staple fibre, the workhorse cloth of shirting, uniforms, bedding and workwear. Blending the two fibres is a compromise: the cotton gives comfort and dye affinity, the polyester gives strength, dimensional stability and resistance to creasing, and the finished fabric has to be judged on properties that neither fibre alone would explain. This document defines the terms, gives the classification, and specifies the requirements, inspection rules, marking and packing of bleached, printed and dyed cotton and polyethylene terephthalate (PET) blended woven fabric, while describing the corresponding test and inspection methods. It grades goods as superior, first or second on two independent axes - inherent quality assessed by lot and appearance quality assessed by roll or piece, the lower of the two setting the overall grade - and it fixes numerical limits for weft count deviation, mass per unit area deviation, fibre content deviation, breaking and tearing strength banded by fabric weight, dimensional change in washing, fuzzing and pilling, and colour fastness to light, washing, rubbing, perspiration and hot pressing. On the appearance side it fixes width deviation by width band, colour difference against reference samples and side to side and head to tail, skewness for plain and plaid patterns, a points-per-hundred-square-metres

allowance for local defects, and rules on scattering defects, false cutting and combination. It is the document a mill, a converter and a garment buyer quote at each other when they argue about whether a delivered lot is first grade, and it also carries the processing coefficients that let a standard finished width and thread count be worked back from the grey fabric specification. The 2025 edition is the third revision, replacing GB/T 5326-2009: it adds mass per unit area deviation and fuzzing and pilling to the inherent quality table, revises the criteria for weft count, fibre content, strength, dimensional change and colour fastness, and drops the old scoring rules for local defects in favour of the method in GB/T 17760-2019.

This document defines the terms, gives the classification, and specifies requirements, inspection rules, marking, and packing of printed and dyed cotton / polyethylene terephthalate (PET) blended fabric, and describes the corresponding test and inspection methods.

This document is applicable to various types of bleached, printed and dyed cotton / polyethylene terephthalate (PET) blended woven fabric which is produced with cotton / polyethylene terephthalate (PET) staple fibres as raw material.

2 Normative references

The following documents are referred to in the text in such a way that some of all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 250 Textiles - Tests for colour fastness - Grey scale for assessing change in colour.

GB/T 411 Printed and dyed cotton fabric.

GB/T 2910.11 Textiles - Quantitative chemical analysis - Part 11: Mixtures of certain cellulose fibres with certain other fibres (method using sulfuric acid).

GB/T 3917.1 Textiles - Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf).

GB/T 3920 Textiles - Tests for colour fastness - Colour fastness to rubbing.

GB/T 3921-2008 Textiles - Tests for colour fastness - Colour fastness to washing with soap or soap and soda.

GB/T 3922-2013 Textiles - Tests for colour fastness - Colour fastness to perspiration.

GB/T 3923.1 Textiles - Tensile properties of fabrics - Part 1: Determination of maximum force and elongation at maximum force using the strip method.

GB/T 4666 Textiles - Fabrics - Determination of width and length.

GB/T 4668 Textiles - Woven fabrics - Determination of number of threads per unit length.

GB/T 4669-2008 Textiles - Woven fabrics - Determination of mass per unit length and mass per unit area.

GB/T 4802.2-2008 Textiles - Determination of fabric propensity to surface fuzzing and to pilling - Part 2: Modified Martindale method.

GB/T 4841.3 Colour cards of standard depths for dyeing with dyestuffs 2/1, 1/3, 1/6, 1/12, 1/25.

GB/T 6152-1997 Textiles - Tests for colour fastness - Colour fastness to hot pressing.

GB/T 8170 Rules of rounding off for numerical values and expression and judgement of limiting values.

GB/T 8427-2019 Textiles - Tests for color fastness - Color fastness to artificial light: Xenon arc.

GB/T 8628 Textiles - Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change.

GB/T 8629-2017 Textiles - Domestic washing and drying procedures for textile testing.

GB/T 8630 Textiles - Determination of dimensional change in washing and drying.

GB/T 14801 Test method for skewness and bow in woven and knitted fabrics.

GB/T 17760-2019 Inspection method for printed or dyed fabric surface defects.

GB 18401 National general safety technical code for textile products.

GB/T 29862 Textiles - Identification of fibre content.

GB 31701 Safety technical code for infants and children textile products.

GB/T 45360 Inspection, marking and packing for printed and dyed fabric of cotton, man-made fibres and blends.

3 Terms and definitions

For the purposes of this document, the terms and definitions given in GB/T 411 apply.

4 Classification

Printed and dyed cotton / polyethylene terephthalate (PET) blended fabric is classified by product variety and specification, which are determined on the base of sales contract between both parties. See Annex A for the processing coefficient of printed and dyed cotton / polyethylene terephthalate (PET) blended fabric.