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

GB/T 8939-2018

Sanitary absorbent pads (panty liners)

卫生巾（护垫）

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Requirements
- 4 Test methods
- 4.3 Deviation of strip mass Use the balance which has a sensitivity of
- 5 Inspection rules
- 6 Marking, packaging, transportation, storage
- 6.1 Product sales marking and packaging
- 6.2 Product transportation and storage

1 Scope

China's national standard for sanitary absorbent pads and panty liners. The product is a laminated structure and the standard treats it as one: a permeable top sheet against the skin, an absorbent core of fluff pulp and superabsorbent polymer, and an impermeable backing film. What determines whether it works is the interaction between those layers rather than the absorbency of any of them - the top sheet must pass fluid quickly and then stay dry to the touch, the core must draw it away and lock it under pressure, and the backing must not leak. The requirements that matter most to the user are dryness and leakage rather than total capacity. Because the product is in prolonged contact with mucous membrane, the hygiene and microbiological requirements are as important as the performance ones, along with the absence of residues from the bleaching and adhesives. The standard specifies the requirements, test methods, inspection rules, marking, packaging, transport and storage for such pads made for women's use.

This standard specifies the requirements, test methods, inspection rules, markings, packaging, transportation, storage of sanitary absorbent pads (panty liner). This standard is applicable to sanitary absorbent pads and panty liners which are composed of surface layer, inner absorption layer (containing fluff pulp and/or superabsorbent resin), anti-seepage base film, etc., and are specially machined and formed for women use.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are

applicable to this standard.

GB/T 462 Paper, board and pulp - Determination of moisture content of analytical sample

GB/T 6682 Water for analytical laboratory use - Specification and test methods

GB/T 10739 Paper, board and pulps - Standard atmosphere for conditioning and testing of samples

GB 15979 Hygienic standard for disposable sanitary products GB/T 21331 Fluff pulp

GB/T 22875 Superabsorbent polymer for sanitary towel

GB/T 24292 Sanitary product - Air-laid paper

GB/T 27731 Release paper for sanitary products

3 Requirements

3.1 The technical indicators of sanitary absorbent pads shall comply with the requirements of Table 1.

3.3 The hygienic requirements for sanitary absorbent pads (panty liner) shall comply with the provisions of GB 15979.

3.4 Sanitary absorbent pads (panty liner) shall not use recycled raw materials. The products shall be clean, free from dirt and damage, contain no foreign objects. Raw materials used for sanitary absorbent pads (panty liner).

3.5 Sanitary absorbent pads (panty liner) shall be packed in separate pieces. The materials used for direct contact with the product shall not use the recycled raw materials.

3.6 The both ends of sanitary absorbent pads (panty liner) shall be firmly sealed. They shall not break during use.

3.7 Sanitary absorbent pads (panty liner) shall not be displaced during normal use. They shall not damage the underwear when peeled off. It shall not have obvious residue.

4 Test methods

4.1 Specimen processing and test conditions When determining the deviation of total-length, deviation of strip mass, water absorption rate, absorption speed, peel strength of back adhesive, the specimen shall be conditioned for at least 4 hours under the standard atmospheric conditions as specified in GB/T 10739, then tested under these conditions.

4.2 Deviation of total-length Use a ruler to measure the total-length of the specimen (measured from the longest part of the specimen), accurate to 1 mm.

4.3 Deviation of strip mass Use the balance which has a sensitivity of

0.01 g to respectively weigh the net weight (including release paper) of 6 specimens of the same specification.

4.4 Water absorption rate Take a piece of specimen. Tear off the release paper. Appropriately cut off the wing. Use a balance which has a sensitivity of

0.01 g to weigh the mass (pre- absorption mass).

4.5 Absorption speed The absorption speed is determined according to Appendix A. The formulation of the standard synthetic test solution for the determination of absorption speed is as shown in Appendix B.

4.6 pH The pH is determined according to Appendix C.

4.7 Moisture at delivery The moisture at delivery is determined according to GB/T 462. Sampling method. Take 2 packages of samples.

4.8 Formaldehyde content The formaldehyde content is determined by acetylacetone-visible spectrophotometry according to GB/T 34448-2017. When sampling, remove the outer packaging and release paper of the single-piece sanitary absorbent pads (panty liner).

4.9 Migratory fluorescent substance The migratory fluorescent substance is determined in accordance with Appendix D.

4.10 Peel strength of back adhesive The peel strength of the back adhesive is determined according to Appendix E.

4.11 Hygienic indicators The hygienic indicators are determined according to GB 15979.

5 Inspection rules

5.1 Requirements for inspection lot Take one delivery as a batch. The unit of the inspection sample is box. Each batch contains not more than 5000 boxes

5.2 Sampling method From a batch of products, randomly take 3 boxes.

5.3 Judgment rules When the inspected product meets all the requirements of clause 3 of this standard, the batch is judged to be qualified. When any of these inspection items fails, the batch is judged to be unqualified.

5.4 Quality assurance The manufacturer shall ensure that the product can only be exit-factory after the quality meets the requirements of this standard, the product passes the inspection and is accompanied with the qualification mark.

6.1 Product sales marking and packaging

6.1.1 The product's sales package shall be marked with the following contents.

6.1.2 The sales packaging of the product shall ensure that the product is not contaminated. The various marking information on the sales package shall be clear and not easy to fade. The Chinese characters, numbers, letters used in the product's marking shall have a font height of not less than