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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 8949-2025

Replacing GB/T 8949-2008

Polyurethane leatherette

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1 Scope

GB/T 8949-2025 is the Chinese national standard covering PU synthetic leather - the coating and the base, the strength and the peel adhesion, the hydrolysis resistance that decides whether the surface crumbles after a few years in a humid climate, the flex and the abrasion. It replaces GB/T 8949-2008, with the PVC standard GB/T 8948-2025. In force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 8949-2008.

This document defines the terms and definitions for polyurethane artificial leather, specifies its classification and requirements, inspection rules, marking, packaging, transportation and storage, and describes the corresponding test methods. This document applies to the production, inspection, and sale of polyurethane artificial leather.

2 Normative references

The provisions of the following documents constitute the essential clauses of this document through normative references in this text. Among them, for any dated reference, only the version corresponding to that date applies to this document; for any undated reference, the latest version (including all amendments) applies to this document.

GB/T 2828.1-2012 Sampling procedures for inspection by attributes - Part 1. Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 2918-2018 Plastics - Standard atmospheres for conditioning and testing

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

GB 8410 Flammability of automotive interior materials

GB/T 8808 Test method for peel force of flexible laminated plastics

GB/T 16578.1 Plastics - Film and sheeting - Determination of tear resistance - Part

3 Terms and definitions

The terms and definitions defined in GB/T 34443 apply to this document.

4 Classification

See Table 1 for classification by backing fabric variety.

5.1 Specifications

5.1.1 Thickness deviation The thickness deviation shall conform to the specifications in Table 2.

5.1.2 Width deviation There shall be no negative deviation.

5.1.3 Length deviation There shall be no negative deviation.

5.1.4 Number of segments per volume and minimum segment length The number of segments per roll and the minimum segment length shall comply with the provisions of Table 3.

5.2 Appearance

5.3.2 Negotiated product performance The negotiated performance of the products shall be determined by the supplier and the buyer based on the application field of the products, and the recommended indicators shall comply with the provisions of A.1 in Appendix A.

6 Test methods

6.1 Specimen preparation A 1 m sample is cut from the product along the lengthways direction. After removing 50 mm from each of the transverse ends of the sample, the specimen is prepared. The specimen dimensions and quantity are shown in Table 6. Use appropriate measuring tools or instruments to perform the measurement, subtract the nominal value from the measured value to calculate the deviation, and the result shall be accurate to 1 mm.

6.3.3 Length deviation Use appropriate measuring tools or instruments to perform the measurement, subtract the nominal value from the measured value to calculate the deviation, and the result shall be accurate to 1 cm.

6.3.4 Number of segments per roll and minimum segment length Use appropriate

measuring tools or instruments to perform the measurement.

6.4 Appearance Visually inspect under natural light or a standard color assessment cabinet with a D65 light source, and measure the defect size using appropriate measuring tools.

6.5 Tensile load and elongation at break The test shall be conducted in accordance with the provisions of Method A in GB/T 38612-2020.

6.6 Tearing load The test shall be conducted according to GB/T 16578.1, with a test speed of (200±20) mm/min. The maximum value of the specimen shall be recorded, and the test results shall be expressed as the arithmetic mean of three specimens each in the lengthways and transverse directions, accurate to

0.1 N.

6.7 Peeling load The test shall be conducted in accordance with GB/T 8808, at a test speed of (200±20) mm/min. The maximum value of the specimen shall be recorded. The test result shall be expressed as the arithmetic mean of three specimens each in the longitudinal and transverse directions, accurate to

0.1 N. If the peel layer or the backing fabric breaks during the test, the maximum value of the test result shall be recorded.

6.8 Color fastness to rubbing

6.8.1 Dry friction The test shall be conducted in accordance with the provisions of GB/T 3920, and the poorer result of the two specimens shall be taken as the test result.