

ICS 83.040.99

QB

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

QB/T 4745-2014

**Tongue scraper
(English Translation)**

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1 Scope

This Standard specifies the classification, requirements, test methods, inspection rules, mark, package, transportation and storage of polyurethane resin for garment synthetic leather.

This Standard is applicable to polyurethane resin for garment synthetic leather with certain solid content formed through the chemical reaction and physical mixing of the raw and auxiliary materials, such as isocyanate, polyols, solvents, additives and the like.

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 document.

GB 190 Packing Symbol of Dangerous Goods

GB/T 2918-1998 Plastics -Standard Atmospheres for Conditioning and Testing

GB/T 4857.1 Packaging - Complete, Filled Transport packages - Identification of Parts when Testing

GB/T 6678 General Principles for Sampling Chemical Products

GB/T 6680 General Rules for Sampling Liquid Chemical Products

GB/T 7193-2008 Test Methods for Unsaturated Polyester Resins

GB 12463 General Specifications for Transport Packages of Dangerous Goods

HG/T 3052-2008 Rubber or Plastics - Coated Fabrics - Determination of Coating Adhesion

QB/T 2714-2005 Leather - Physical and Mechanical Tests - Determination of Flex Resistance

5.5.2 Test procedures and results

It shall be carried out as per the provisions of 5.5 in QB/T 4197-2011.

5.6.1 Specimen preparation

The specimen shall be prepared as per the requirements of Appendix A; specimen size is 200mmx30mm; the number of the specimens shall be 6 pieces.

5.6.2 Test procedures and results

The test shall be carried out as per the method specified in HG/T 3052-2008; paste the 6 pieces of specimens into each group of 2 pieces. Place them into a constant temperature oven at $(135 \pm 5)^\circ\text{C}$; standing for 30min then take them out, cool off to the room temperature. Test separation speed is (200 ± 20) mm/min. Record the maximum peeling load of the specimen; take the arithmetic mean of the test results of the three groups of specimens, accurate to 1N.

5.7.1 Specimen preparation

The specimen shall be prepared as per the requirements of Appendix A; the specimen size is of 200mmx30mm; the number of specimens is 6 pieces.

5.7.2 Test procedures

Test shall be carried out as per the provisions of 6.1 in QB/T 4671-2014; the damp- heat treatment time is 14d; test the peeling load before and after the damp-heat treatment as per the provisions of 5.6.

5.7.3 Test results

It shall be carried out as per the provisions of 5.9.2 in QB/T 4908-2016.

5.8.1 Specimen preparation

The specimen shall be prepared as per the requirements of Appendix B. The test size of the finished leather shall be 60mmx60mm; the number of specimens shall be no less than 3 pieces.

5.8.2 Test procedures and results

Test shall be carried out as per the provisions of QB/T 2714-2005. The test mode is in to be unqualified.

6.3 Exit-factory inspection

The exit-factory inspection items shall be all items in 4.1, 4.2, 4.3.

6.4 Type inspection

The type inspection shall include all items in Clause 4.

The type inspection shall be carried out in one of the following cases:

- a) When new products or old products are transferred the factory for stereotyping appraisalment;
- b) When there are significant changes in place of production, formula, raw materials, and process after the formal production;
- c) When for normal production, conduct once every 12 months;
- d) When production is restored after long-term shutdown for more than 6 months;
- e) When there is big difference between the exit-factory inspection results and the previous type inspection;
- f) When the state quality supervision department proposes the requirements.

7.1 Mark

The marking position of product packaging container shall be implemented as per the requirements of GB/T 4857.1. The outer package shall contain at least the following information:

- a) Product name;
- b) Production organization and address;
- c) Production date and production batch number;
- d) Shelf life (or effectiveness date);

e) Net content;

f) According to the requirements of GB 190, obviously mark the flammable liquids and hazardous chemicals;

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