

ICS 59.140

QB

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

QB/T 2711-2005

**Leather. Physical and mechanical tests. Determination of tear
load. Double edge tear
(English Translation)**

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Foreword

This standard is a revision of QB/T 3812.6-1999 "Leather - Determination of tear force".

This standard modifies and adopts ISO 3377-2:2002 "Leather - Physical and mechanical tests - Determination of tear load - Double tear". This international standard is based on the International Federation of Leather Craftsmen and Chemists (IULTCS) standard IUP 8.

QB/T 3812.6-1999 equivalently adopts ISO 3377:1975. ISO 3377 has been revised, which was replaced by ISO 3377:2002.

This standard was redrafted in accordance with ISO 3377-2:2002.

According to the actual situation in our country, this standard has undergone the following technical changes when adopting ISO 3377-2:2002.

- In the "Normative references", RE-WRITE the originally cited ISO standard to relevant Chinese standards;
- SIMPLIFY the requirements for tensile testing machines; REMOVE the requirements for quoting ISO 7500-1;
- According to the custom in our country, DIVIDE the sampling and specimen preparation in 5.1 into two clauses; the subsequent clause numbers are

changed accordingly;

- In order to prevent incorrect understanding of the standard in use, DELETE the reference "note" in 5.1.

This standard has also undergone the following editorial changes.

- DELETE the foreword of the ISO standard;
- CHANGE the term "this international standard" with "this standard";
- USE the decimal point "." to replace the comma "," which was used as a decimal point.

Compared with QB/T 3812.6-1999, the main changes of this standard are as follows.

- ADD 2 "Normative references", 5 "Sampling and specimen preparation";
- CANCEL the contents of chapter 5 of the original standard.

Leather - Physical and mechanical tests -

Determination of tear load - Double edge tear

1 Scope

This standard specifies the method for measuring the tear force of leather - the double edge tear method (Baumann tear).

This standard applies to all types of leather.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

QB/T 2706 Leather - Chemical physical and mechanical and fastness tests

- Sampling location (ISO 2418.2002, MOD)

QB/T 2707 Leather - Physical and mechanical tests - Sample preparation

and conditioning (ISO 2419.2006, MOD)

QB/T 2709 Leather - Physical and mechanical tests - Determination of thickness (ISO 2589.2002, MOD)

3 Principle

The rectangular specimen of the specified shape (with a hole in the middle) is placed on the test hooks of the upper and lower fixtures of the tensile testing machine. The maximum force reached when the tensile testing machine is running is the tear force of the specimen.

4.1 Tensile testing machine

Figure 2 -- Shape of specimen

5.1 Sampling

It is performed according to the provisions of QB/T 2706-2005.

5.2 Preparation of specimen

According to the provisions of QB/T 2707-2005, use a die knife (4.4) to cut 6 specimens from the grain surface, wherein the long sides of 3 specimens are parallel to the ridge line, the long sides of the other 3 specimens are perpendicular to the ridge line.

5.3 Air conditioning of specimen

It is performed according to the provisions of QB/T 2707-2005.

5.4 Determination of specimen thickness

Measure the thickness of the specimen according to the provisions of QB/T 2709-2005.

6.1 Adjust the tensile testing machine so that the hooks of the two test hooks

lightly touch. Put the hole of the specimen into the hook part of the two test hooks. The wide side of the test hook is parallel to the straight side of the specimen hole, so that the specimen cannot fall off.

6.2 Start the tensile testing machine until the specimen tears. Record the maximum force value.

7 Test report

The test report should include the following.

- a) This standard number;
- b) Sample name, number and type;
- c) Detailed information of the specimen, inconsistency between the sampling and QB/T 2706-2005;

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