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

GB/T 3917.2-2009

**Textile -- Tear properties of fabrics -- Part 2: Determination of
tear force of trouser-shaped test specimens (Single tear
method)**

纺织品 织物撕破性能

(English Translation)

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1 Scope

This Part of GB/T 3917 specifies a single-tear method to determine fabric tear force, known as the trouser test, using a test specimen cut to form trouser-shaped legs. The tear force measured is the force required to propagate a previously started single tear when the force is applied parallel to the cut and the fabric tears in the direction of applied force.

This Part is mainly applicable to woven textile fabrics. It may be applicable to fabrics produced by other techniques, e.g. to some nonwovens, etc.

This Part is not applicable to knitted fabrics and woven elastic fabrics. It is not suitable for highly anisotropic fabrics or loose fabrics where tear transfer from one direction to another direction of the fabric during the tear test is likely to occur.

The part only allows the use of constant-rate-of-extension (CRE) testing machines.

2 Normative references

The articles contained in the following documents have become part of this Part of GB/T 3917 when they are quoted herein. For the dated documents so quoted, all the

modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Part. For the undated documents so quoted, the latest editions shall be applicable to this Part.

GB/T 6529 Textiles - Standard atmospheres for conditioning and testing (GB/T 6529-2008, ISO 139:2005, MOD)

GB/T 16825.1 Verification of static uniaxial testing machines - Part 1: Tension / compression testing machines - Verification and calibration of the force-measuring system (GB/T 16825.1-2008, ISO 7500-1:2004, IDT)

GB/T 19022 Measurement management systems - Requirements for measurement processes and measuring equipment (GB/T 19022-2003, ISO 10012:2003, IDT)

3 Terms and definitions

Chinese Standards

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