

ICS 61.06
CCS Y78



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

GB/T 38011-2019

**Footwear - Test methods for whole shoe - Pull-out force of
upper bands**

鞋类 整鞋试验方法 帮带拔出力

Issued on: August 30, 2019

Implemented on: March 1, 2020

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

2 Normative References
3 Principle
6.2 Test Procedures

Foreword

GB/T 38011-2019 Footwear - Test Methods for Whole Shoe -Pull-out Force of Upper Bands

7 Table of Contents Foreword

.....	3
1 Scope	4
2 Normative References	4
3 Principle	4
4 Instruments and Equipment	4
5 Sampling and Conditioning	5
6 Test Methods	6
7 Test Result	7

Footwear - Test Methods for Whole Shoe -Pull-out Force of Upper Bands 1 Scope

This Standard stipulates the test methods for whole shoe in the pull-out force of upper bands. This Standard is applicable to whole shoe in footwear.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 16825.1-2008 Verification of Static Uniaxial Testing Machines - Part 1:
Tension/compression Testing Machines - Verification and Calibration of the
Force-measuring System;

GB/T 22049-2019 Footwear - Standard Atmospheres for Conditioning and Testing of
Footwear and Components for Footwear

3 Principle

Adopt tension testing machine, which can continuously record tension, to determine the maximum tension value (namely, pull-out force of upper band) when pulling upper band out of shoe sole.

4 Instruments and Equipment 4.1 Tension Testing Machine 4.1.1 Comply with Grade-2 requirements in GB/T 16825.1-2008; measuring range: not less than 350 N; equipped with an indicating device, which can record the maximum tension value.

5.2.3 If the width of the upper band is less than

25.0 mm, cutting will be unnecessary; directly cut open the upper band from the middle.

5.2.4 Use Vernier caliper to measure the width of the upper band where it connects with the bottom of the band. If the shoes are in shoelace-style structure, then, measure the diameter of the circular cross section of the upper band where it connects with the bottom of the band.

5.2.5 Respectively test the internal side and the external side of the upper band. In terms of flip-flops, the pull-out force of the upper band in the thong part shall also be tested.

5.3 Conditioning Before test, samples shall be placed for at least 4 h under the temperature condition of the reference standard environment in accordance with the stipulations in GB/T 22049-2019.

6 Test Methods 6.1 Test Conditions 6.1.1 The tensile speed of the tension test machine shall be: (100 ± 5) mm/min.

6.1.2 In accordance with the stipulations in GB/T 22049-2019, conduct the test under the temperature condition of the reference standard environment.

6.2 Test Procedures

6.2.1 Adjust the zero point of the tension test machine; set up the tensile speed.

6.2.2 Use the upper clamp on the tension test machine to clamp the upper band or the thong; use the lower clamp to clamp the shoe sole. The part that connects the bottom of the upper band cannot be clamped.

6.2.3 Adjust the location of the fixture. Conduct visual inspection to make the force-bearing direction of the upper band or the thong vertical to the shoe sole, and consistent with the force application direction of the tension test machine.

--- The End ---