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

GB/T 7125-2014

Test method for thickness of adhesive tapes

胶粘带厚度的试验方法

(English Translation)

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Table of Contents

Foreword...	3
1 Scope...	5
2 Normative references...	5
3 Terms and definitions...	5
4 Devices...	5
5 Samples and specimens...	6
6 Test environment...	6
7 Test process...	6
8 Report...	7

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 7125-1999 "Test method for thickness of pressure-sensitive adhesive tape and adhesive tape". As compared with GB/T 7125-1999, the main technical changes are as follows.

- CHANGE the standard name from "Test method for thickness of pressure-sensitive adhesive tape and adhesive tape" to "Test method for thickness of adhesive tapes" (see cover; cover of the 1999 version);
- ADD a clause on normative references (see clause 2);
- DELETE the clause on meaning and use (see clause 3 of the 1999 version);
- MODIFY the requirements for the gauge head diameter and the measurement pressure (see 4.1 and 4.2; 4.1.1 and 4.1.2 of the 1999 version);
- MODIFY the requirements for the width and length of the specimen (see 5.1; 5.1 of the 1999 version);
- MODIFY the requirements for the temperature range of test environment and the time required to condition the specimen (see clause 6; 6.1 of the

1999 version);

- MODIFY the requirements for reading time during the testing (see 7.2; 7.1 of the 1999 version).

This standard is revised in accordance with ASTM D3652/D3652M-01.2012 "Test method for thickness of pressure-sensitive adhesive tapes".

This standard has several structural adjustments as compared with ASTM D3652/D3652M-01.2012. Appendix A provides a comparison list of clause numbers of them.

Tas compared with ASTM D3652/D3652M-01.2012, there are technical differences in this standard. The clauses involved in these differences have been indicated by a vertical single line (|) in the blank position of outer margin. Appendix B provides technical differences as well as the causes.

This standard has made the following editorial changes.

- MODIFY the description of the length unit, ASTM D3652/D3652M-01.2012 proposes three length units of mils, mm, in in 3.2.1, 5.1.1, 9.2, 10.1.2, respectively. However, in order to use the international unit of measurement, this standard uses mm or μm as the unit of length;
- ADD Appendix A (informative) "Structural changes in this standard as compared with ASTM D3652/D3652M-01.2012";
- ADD Appendix B (informative) "Technical differences between this standard and ASTM D3652/D3652M-01.2012 and their causes".

This standard was proposed by the China Petroleum and Chemical Industry Federation.

This standard shall be under the jurisdiction of the National Adhesive Standardization Technical Committee (SAC/TC 185).

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(Zhongshan) Co., Ltd., Guangdong Damei New Materials Co., Ltd., Zhongshan New Asia Adhesive Products Co., Ltd., Shanghai Jinhua Adhesive Products Development Co., Ltd., Fengdu Technology Development Co., Ltd., Hebei Huaxia Industrial Co., Ltd.

1 Scope

This standard specifies the test method for the thickness of pressure-sensitive adhesive tapes and other adhesive tapes.

This standard applies to the determination of the thickness of adhesive tape. It is used for quality control of adhesive tape products.

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 standard.

GB/T 22396 Terminology relating to pressure sensitive adhesive products

GB/T 22520 Dial thickness gauges

3 Terms and definitions

The terms and definitions as defined in GB/T 22396 as well as the following terms and definitions apply to this document.

4.1 Test instrument. Dial thickness gauges which comply with the requirements

of GB/T 22520. Its measuring head consists of two upper and lower planes, wherein the higher smaller plane is circular and has a diameter of 5 mm ~ 16 mm.

4.2 When the specimen is clamped between the upper and lower planes of the

measuring head, it is subjected to a stable pressure of 40 kPa ~ 60 kPa.

5.1 The width of the specimen is larger than the diameter of the smaller

measuring head. The length of the specimen is not less than 50 mm. The specimen does not have wrinkle or folding mark.

5.3 Unless otherwise specified, the number of samples of each set of adhesive

tape roll shall be not less than five. Take one specimen from each of the adhesive tape roll sample. At the time of sampling, from the free-rotating adhesive tape roll, use a rate of about 500 mm/s ~ 750 mm/s to take the specimen. When it cannot take sample at the specified rate due to width or other factors, use the rate of about 500 mm/s to take specimen.

6 Test environment

Before the test, hold the sample adhesive tape roll in the test environment.

Make its state reach balance.

7.1 Before each measurement, use appropriate solvent to clean the measuring

head. Adjust the dial thickness gauge to zero.

7.2 Place the specimen between the upper and lower planes of the measuring

head of the measuring instrument.

7.3 When measuring the double-sided adhesive tape with release film or

release paper, use the steps as shown in 7.2.

8 Report

The report includes the following.

Appendix A

(Informative)

Structural changes in this standard as compared with ASTM

D3652/D3652M-01.2012

As compared with ASTM D3652/D3652M-01.2012, this standard is basically the same in structure. The specific clause number comparison is as shown in