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

GB/T 12683-2009

Replacing GB/T 12683-1990

**Method for determining the tensile properties of photographic
film and film base**

片基与胶片拉伸性能的测定方法

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Foreword

This standard replaces GB/T 12683-1990 "Determination of the base sheet and the tensile properties of the film." This standard compared with GB/T 12683-1990, the main changes are as follows:

- The "subject matter and scope" to "Range" (Excerpts Chapter 1, Chapter 1 of the 1990 edition);
- "Reference standard" to "normative references" (Chapter 2 of this edition, the 1990 edition Chapter 2);
- "Term" to "Terms and Definitions" (Excerpts Chapter 3, Section 3 of the 1990 edition);
- Chapter 6, "Environmental conditions" with reference to GB/T 2918 were clearly defined (Chapter 6 of this edition);
- Sample preparation to "clip the full width of 30cm as a sample," the description read "along the longitudinal base sheet to take the full width of 30cm a sample" (Excerpts Chapter 7);
- Increase in microprocessor-based electronic tensile testing machine (test machine similar or identical principles) measurement and data processing method content (the first edition Chapter 8). Appendix A of this standard and Appendix B is an informative annex. The standard proposed by China Petroleum and Chemical Industry Association. The photosensitive material standard by the National Standardization Technical Committee (SAC/TC102) centralized. This standard was drafted. China Lucky Film Group Corporation. The main drafters of this standard. Liyan Ying, Sun Zhiying. This standard supersedes the previous editions are.
- GB/T 12683-1990. Film base film tensile properties measurement method

1 Scope

GB/T 12683-2009 is the Chinese national standard on method for determining the tensile properties of photographic film and film base, in the field of image technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding

as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 15 December 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 June 2010. Classification: ICS 37.040.20, CCS G81. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the method for determination of the base sheet tensile properties of the film. This standard applies to cellulose triacetate film base or polyester base film base as well as those of the tensile properties of photographic film support of Determination.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard. 1040.1 Plastics Determination of tensile properties GB/T Part 1. General

GB/T 2918 plastic sample conditioning and testing of the standard environment
Determination of

HG/T 3009 film and film base thickness of mechanical scanning

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 In the tensile test, at any given time, the initial sample cross-sectional area of
the unit to withstand the tensile force, in MPa.

3.2 In the tensile test, the tensile stress at break of the specimen.

3.3 In the tensile test, a stress does not increase when the first time corresponding to the point on the stress curve increases the length of the sample.

3.4 In the tensile test, the specimen tensile stress reaches the yield point.

3.5 In the tensile test, the specimen increased length divided by the initial sample test length, expressed as a percentage.

3.6 In the tensile test, the specimen yield or elongation at break, expressed as a percentage.

3.7 See Appendix A. 4. Summary Under test conditions, using the tensile testing machine, based on the sheet or film samples prescribed width tensile test, the measured sample Qu

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