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

GB/T 14447-2025

Replacing GB/T 14447-1993

**Test method for electrostatic property of plastic film - Half-life
method**

塑料薄膜静电性测试方法 半衰期法

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document replaces GB/T 14447-1993 "Test method for electrostatic properties of plastic films - half-life method" and is consistent with GB/T 14447-1993. In addition to structural adjustments and editorial changes, the main technical changes are as follows:

- Changed the scope of application (see Chapter 1, Chapter 1 of the.1993 edition);
- Changed the terms "electrostatic field strength", "electrostatic half-life", "residual electrostatic voltage" and "residual electrostatic field strength" (see 3.2, 3.5, 3.6, 3.7, 3.2, 3.5, 3.6, 3.7 of the.1993 edition);
- Changed the description of the test principle (see Chapter 4, Chapter 4 of the.1993 edition)
- Added rubber gloves sampling requirements, sample size requirements, and sample thickness measurement requirements (see Chapter 5);
- Changed the sample condition adjustment and test standard environment (see Chapter 6, Chapter 6 of the.1993 edition);
- Changed the test device schematic diagram (see Figure 1,.1993 edition test device schematic diagram);
- Changed the discharge range of the high voltage generator, the description of the discharge electrode, and the description of the sample fixture (see 7.1.2, 7.1.3, 7.1.4,.1993 Version 7.1, 7.2, 7.3);
- Increased the accuracy requirements of electrostatic sensors (see 7.1.5);
- Changed the description of the electrometer (see 7.1.6, 7.5 of the.1993 edition);

--- Added static elimination device (see 7.2);

1 Scope

GB/T 14447-2025 is the Chinese national standard on test method for electrostatic property of plastic film - half-life method, in the field of rubber and plastic industries. 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 1 August 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 February 2026. Classification: ICS 83.140, CCS A83. 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 document describes the test method for the electrostatic half-life of plastic films (hereinafter referred to as "half-life") and gives the electrostatic half-life of plastic films. Test principles, test specimens and their preparation, test specimen condition adjustment and standard test environment, test instruments, test steps, and result values of the test method And expression, test report. This document is applicable to anti-static packaging plastic films, and films made of other insulating materials shall be implemented accordingly.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 2918 Standard environment for conditioning and testing of plastic specimens

GB/T 6672 Plastic film and sheeting - Determination of thickness - Mechanical measurement method

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 electrostatic voltage The voltage to the ground generated by the relatively stable charge accumulated on the sample after it is subjected to some external action.

3.2 The electric field intensity generated by the relatively stable charges accumulated on the sample after it is subjected to some external action.

0 The maximum electrostatic voltage generated when the sample is subjected to some external action.

0 The maximum electrostatic electric field intensity generated when the sample is subjected to some external action.

3.5 electrostatic half-life t

12 The time required for the electrostatic voltage (or electrostatic field strength) of the sample to decay to half of its peak value.