

ICS 29.035.99

CCS K 15



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

GB/Z 21214-2007

**Polyester film for fly back transformer
(English Translation)**

Issued on: December 3, 2007

Implemented on: May 20, 2008

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, China National
Standardization Administration**

Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Requirements
 - 3.1 Appearance
 - 3.2 Film roll, die
 - 3.3 Size

Foreword

This guidance document refers to the Japanese Toray S10 polyester film standard and GB 12802.2-2004 "electrical insulation film Part 2. Polyester film for electrical insulation.

This guidance technical document was proposed by the China Electrical Equipment Industry Association.

This guidance document is under the jurisdiction of the National Technical Committee for Standardization of Insulation Materials (SAC/TC51).

This guiding technical document was drafted by. Oriental Insulation Materials Co., Ltd.

1 Scope

This guidance document specifies the requirements, test methods, inspection rules, marking, packaging, and transportation of polyester film for output transformers.

And storage.

This guidance document applies to films made from polyethylene terephthalate through cast slab and biaxially oriented stretching.

Line output transformer manufacturing industry.

2 Normative references

The terms of the following documents are incorporated into the terms of this guidance document by reference to this guidance. Any dated Reference documents, all subsequent amendments (not including errata content) or revisions do not apply to this guidance technical document, however, drums the parties that have reached an agreement under this guidance document will investigate whether the latest versions of these documents are

available. Any undated reference the latest version of the document applies to this guidance document.

GB/T 13541-1992 Test method for plastic film for electrical (neq IEC 60674-2:1988) GB/T 13542-1992 General requirements for plastic films for electrical purposes (neq IEC 60674-1:1980) ANSI/UL94-2001 Combustibility Test for Plastics for Equipment Parts IEC 61074:1999 Determination of melting heat, melting point, crystallization heat and crystallization temperature of electrical insulating materials by differential scanning calorimetry method

3.1 Appearance

The film is supplied in rolls or in a disk, and the surface of the film is smooth and smooth, free from defects such as wrinkles, tears, particles, bubbles, pinholes and foreign matter.

The edges should be neat and undamaged. When cut into discs, the end faces are neat, the hand feels smooth, no curling, no burrs.

3.2 Film roll, die

Film rolls and dies shall comply with the provisions of 4.2 and 4.4 of GB/T 13542-1992.

3.3.1 Thickness range and tolerance

The thickness is determined by negotiation between the supplier and the buyer. The recommended nominal thickness is recommended. 75 μm , 100 μm . The thickness tolerance is $\pm 3\%$ of the nominal thickness.

3.3.2 Number of joints and length of the shortest section

The number of joints per roll is 0, and the shortest length is determined by negotiation between the supplier and the buyer.

3.3.3 Winding diameter, width and limit deviation

The specifications of the roll diameter and width are determined by negotiation between the supplier and the buyer. Recommended width is 26.5mm, 28mm, 32mm, 34mm, 36mm, 38mm, 40mm. The film is processed into a reel according to user requirements. The limit deviation of the winding diameter and width shall comply with the requirements of Table 1.

Table 1 The limit deviation of film winding diameter and width is in millimeters

Width	winding diameter	limit deviation	Width film roll end face	film height
15~50	≥ 180	± 0.2		