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

GB/T 20415-2025

Replacing GB 20415-2006

Rubber- or plastic-coated fabrics - Insulating tape

橡胶或塑料涂覆制品 绝缘带

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Standardization Administration of the PRC**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB 20415-2006 "Rubber-coated Fabric Insulation Tape". Compared with GB 20415-2006, the main differences are in structural adjustments and weaving. Aside from the logical changes, the main technical changes are as follows:

- The scope has been changed (see Chapter 1, Chapter 1 of the.2006 edition);
- Added terms and definitions (see Chapter 3);
- Specifications and tolerances have been changed (see 4.2, 3.1 in the.2006 edition);
- The withstand voltage requirement has been removed (see section 4.2 of the.2006 edition);
- The requirements for adhesive properties and adhesive properties after hot air aging have been removed (see 4.4 in the.2006 edition);
- Increased performance in terms of 180° peel strength, low-speed unwinding strength, electrical strength, high-temperature resistance, and low-temperature resistance (see 4.4);
- Sampling and testing methods have been changed (see Chapter 5, Chapter 5 of the.2006 edition);
- The inspection rules have been changed (see Chapter 6, Chapter 6 of the.2006 edition);
- The labeling, packaging, transportation, and storage have been changed, and the product shelf life has been increased (see Chapter 7, Chapter 7 of the.2006 edition). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Petroleum and Chemical Industry Federation. This document is

under the jurisdiction of the National Technical Committee on Standardization of Rubber and Rubber Products (SAC/TC35). This document was drafted by: Shushi Group Co., Ltd. and Shenyang Rubber Research and Design Institute Co., Ltd. The main drafters of this document are: Shu Kangji, Tao Baoguo, Li Sa, and Kang Xiaotian. The release history of this document and the document it replaces is as follows:

1 Scope

GB/T 20415-2025 is the Chinese national standard covering coated fabric insulating tape - the breakdown voltage and the insulation resistance, the tensile strength and elongation, the adhesion of the coating and the tack, and the ageing and temperature range it is rated for. It replaces GB 20415-2006 and moves it from mandatory to recommended status. In force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026, replacing GB 20415-2006.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191-2008 Pictorial Symbols for Packaging and Storage

GB/T 1408.1-2016 Electrical strength test methods for insulating materials - Part

GB/T 4850 Determination of Low-Speed Unwinding Strength of Pressure-Sensitive Adhesive Tapes

GB/T 20631.2-2006 Electrical pressure-sensitive adhesive tapes - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Gapping on the plate The phenomenon of partial phase separation between the layers of the insulating tape reel, resulting in gaps at the end face of the reel-shaped insulating tape.

3.2 rough edges The insulation tape has fine, uncut fibers of the substrate at its edges.

Note. Also known as double knife marks.

3.3 uneven weaving The edges of the layers on the end face of the insulating tape reel are not in the same plane, resulting in an uneven end face of the insulating tape reel.

3.4 Concave (convex) core offcore The end face of the coiled insulating tape is not on the same plane as the core, causing the core to be concave (convex).

3.5 blemish The phenomenon that the coating quality of fabrics has local defects due to yarn knots, missing yarns, broken yarns, etc.

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