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

GB/T 2679.17-2026

Replacing GB/T 2679.17-1997

**Corrugated fibreboard - Determination of edgewise crush
resistance - Edge reinforced method**

瓦楞纸板 边压强度的测定 边缘补强法

(English Translation)

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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 is Part 17 of GB/T 2679. GB/T 2679 has the following parts published.

---Determination of paper transparency using the diffuse reflectance method (GB/T 2679.1);

---Determination of moisture permeability of thin sheet materials by gravimetric (permeability cup) method (GB/T 2679.2);

---Determination of flat crush strength of corrugated core paper after corrugation in the laboratory (GB/T 2679.6);

---Determination of puncture strength of cardboard (GB/T 2679.7);

---Determination of ring crush strength of paper and paperboard (GB/T 2679.8);

---Determination of short-range compressive strength of paper and paperboard (GB/T 2679.10);

---Qualitative analysis of inorganic fillers and inorganic coatings for paper and paperboard by electron microscopy/X-ray energy dispersive spectroscopy (GB/T 2679.11);

---Qualitative Analytical Chemistry Methods for Inorganic Fillers and Inorganic Coatings in Paper and Paperboard (GB/T 2679.12);

---Determination of pore size in paper and paperboard (GB/T 2679.14);

---Determination of edge crush strength of corrugated cardboard. edge reinforcement method (GB/T 2679.17).

This document replaces GB/T 2679.17-1997 "Determination of Edge Crush Strength of Corrugated Board (Edge Reinforcement Method)" and is consistent with GB/T 2679.17-Compared to 1997, aside from structural adjustments and editorial changes, the main technical changes are as follows.

- a) The scope has been changed (see Chapter 1, Chapter 1 of the 1997 edition);
- b) The description of the compression testing apparatus has been changed (see 5.1, 4.1 of the 1997 edition);
- c) A circular saw cutting device was added (see 5.2);
- d) The number of uses required for the electric double-blade cutter blade has been changed (see 5.2, 4.2.2 of the 1997 edition);
- e) The sampling method was changed (see Chapter 6, Chapter 5 of the 1997 edition);
- f) Added dimensional requirements for E-flute and F-flute specimens and recommendations for achieving pure compression failure in thin double-walled cardboard specimens (see 8.1.1);
- g) A method for determining whether the cut samples meet the test requirements has been added (see 8.1.3);
- h) The melting temperature of paraffin was changed (see 8.2, 7.2 in the 1997 edition);
- i) The test report was amended (see Chapter 11, Chapter 11 of the 1997 edition);
- j) The "precision" section and its contents are changed from the text to an informative appendix (see Appendix B, Chapter 10 of the 1997 edition).

This document is modified to adopt ISO 13821:2020 "Determination of edge crush strength of corrugated board - Wax edge method".

This document has undergone significant structural adjustments compared to ISO 13821:2020. A table comparing the structural numbering changes between the two documents is available below.

Appendix A.

The technical differences between this document and ISO 13821:2020, and the reasons therefor, are as follows.

- a) The scope has been changed (see Chapter 1) to suit my country's technological conditions;
- b) ISO 13820 (see Chapter 5) has been replaced with the normatively referenced GB/T 22876 to adapt to my country's technical conditions;
- c) ISO 186 (see Chapter 6) has been replaced with the normatively referenced GB/T 450 to

adapt to my country's technical conditions;

d) The sampling requirements have been changed (see Chapter 6) to adapt to my country's technical conditions;

e) ISO 187 (see Chapter 7) has been replaced with the normatively referenced GB/T 10739 to adapt to my country's technical conditions;

f) Change "X-flanged" in section 8.2 of ISO 13821:2020 to "E-flanged, F-flanged" (see 8.1.1) to adapt to my country's technical conditions;

g) Adjust Chapter 11 of ISO 13821:2020 to an informative annex (see Annex B) to suit my country's technical conditions.

The following editorial changes have been made to this document.

---The standard title has been changed to "Determination of Edge Crush Strength of Corrugated Board. Edge Reinforcement Method";

---The URLs for the ISO and IEC terminology databases in international standards have been removed.

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 National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Paper Industry (SAC/TC141).

Introduction

Paper and paperboard are the main products of the paper industry and are widely used in printing and publishing, packaging, daily life, and special industries.

GB/T 2679 specifies the methods for testing the basic performance indicators of paper and paperboard, which is proposed to consist of 10 parts.

---Determination of Paper Transparency by Diffuse Reflectance Method (GB/T 2679.1). The purpose is to establish a method for determining paper transparency.

---Determination of moisture permeability of thin sheet materials by gravimetric (permeability cup) method (GB/T 2679.2). The purpose is to establish the moisture permeability of thin sheet materials.

Methods for measuring moisture permeability through creases.

---Determination of flat crush strength of corrugated core paper after laboratory corrugation (GB/T 2679.6). The purpose is to establish the laboratory flat crush strength of corrugated base paper.

Method for determining the compressive strength after crease formation.

---Determination of puncture strength of paperboard (GB/T 2679.7). The purpose is to establish a method for determining the puncture strength of paperboard.

---Determination of ring crush strength of paper and paperboard (GB/T 2679.8). The purpose is to establish a method for determining the ring crush strength of paper and paperboard.

---Determination of short-range compressive strength of paper and paperboard (GB/T 2679.10). The purpose is to establish the transverse compressive strength of paper and paperboard.

Measurement method.

---Qualitative analysis of inorganic fillers and inorganic coatings for paper and paperboard by electron microscopy/X-ray energy dispersive spectroscopy (GB/T 2679.11).

The aim is to establish a method for determining inorganic fillers and inorganic coatings in paper and paperboard.

---Qualitative Analytical Chemistry Methods for Inorganic Fillers and Coatings in Paper and Paperboard (GB/T 2679.12). The aim is to establish qualitative analytical methods for inorganic fillers and coatings in paper and paperboard.

Methods for determining inorganic fillers and inorganic coatings in paperboard.

---Determination of pore size in paper and paperboard (GB/T 2679.14). The purpose is to determine the maximum pore size, average pore size, and pore diameter of paper and paperboard.

Methods for determining distribution.

---Determination of Edge Crush Strength of Corrugated Board. Edge Reinforcement Method (GB/T 2679.17). The purpose is to determine the edge crush strength of corrugated board.

Methods for measuring degree.

Determination of edge crush strength of corrugated cardboard Edge reinforcement method

1 Scope

This document describes a method for determining the edge crush strength of corrugated board using the edge reinforcement method.

This document applies to single-wall (double-sided), double-wall, and triple-wall corrugated cardboard, as well as edge crush strength of corrugated boxes and other processed products.