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

GB/T 6545-1998

**Corrugated board. Determination of bursting strength
(English Translation)**

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Foreword

This Standard equivalently adopts ISO 2759.1993 Board - Determination of Bursting Strength.

This Standard is the revised draft of GB 6545-1986 Corrugated Fiberboard - Determination of Bursting Strength.

This Standard was drafted as per the rules specified in GB/T 1.1-1993 Directives for The Work of Standardization - Unit 1.Drafting and Presentation of Standards - Part 1. General Rules for Drafting Standards.

This Standard replaced GB 6545-1986 since the date of implementation.

This Standard was proposed by China Light Industry Association.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Paper Industry.

Drafting organization of this Standard. China National Pulp and Paper Research Institute.

Chief drafting staffs of this Standard. Li Lanfen, and Zhang Shaoling.

This Standard was first-time published on June 10, 1986.

Corrugated Fiberboard -

Determination of Bursting Strength

1 Scope

This Standard specifies using the hydraulic increase method to determine the bursting strength of the corrugated fiberboard.

This Standard is applicable to the corrugated fiberboard with bursting strength of 350~5500kPa.

2 Normative References

The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. At the time of publication, the editions indicated are valid. All standards are subject to revision. The parties who are using this Standard shall explore the possibility of using the latest version of the following standards.

GB 450-1989 Paper and Board - Sampling for Testing

GB 10739-1989 Paper Board and Pulps - Conditioning of Samples and Testing

Atmospheres

3 Definitions

For the purpose of this Standard, the following definition apply.

4 Test Principle

Place the sample on the adhesive film; clamp it with the sample clamp; and then apply pressure evenly to make the sample and the adhesive film freely protrude until the sample ruptures.

5.1 Sample chuck system

The diameter of the upper chuck is (31.5 ± 0.5) mm, and the diameter of the lower chuck hole is (31.5 ± 0.5) mm. The upper and lower clamp rings shall be concentric, and the maximum error shall be no greater than 0.25 mm. The two clamp rings are parallel to each other and flat. The contact surface is evenly stressed during the test.

5.2 Adhesive film

The adhesive film is round and composed of elastic material. The adhesive film is firmly clamped, and its upper surface is about 5.5mm lower than the top surface of the lower clamp ring.

7 Preparation of Sample

The sample area must be larger than the chuck of the burst tester; and the sample must not have watermarks, creases or obvious damage.

8 Test Procedures

Cut samples and test under the atmospheric conditions specified in 6.2.

Open the sample chuck; clamp the sample in the middle of the two sample chucks; then start the analyzer; and gradually increase the pressure at a rate of (170 ± 15) mL/min.

9 Result Expression

The test is carried out on 10 samples each attached to the film on the front and back sides, and is expressed by the arithmetic mean value (kPa) of all tested values.

10 Test Report

The test report includes the following contents.

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