

KS

KOREAN INDUSTRIAL STANDARD

Testing method for abrasion resistance of paper and paperboard

KS M 7062 : 2002

Korean Agency for Technology and Standards
Ministry of Commerce, Industry and Energy

2, Joongang-dong, Kwachon-city,
Kyunggi-do, 427-010 Rep. of Korea

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1. Scope

This method is to measure the resistance of surfaces of paper and paperboard to the action of abrasion.

2. Reference standard

The following standards constitute the parts of this regulation and the latest edition of publication is applied.

KS M 7012 Paper, paperboard and pulps - standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples

3. Definitions⁽¹⁾

abrasion resistance in this method is the resistance of surfaces of paper and paperboard to the action of abrasion at a constant condition.

Remark⁽¹⁾ This test method is intended to measure the resistance to abrasion to make outer fibers removal so big fluff is made on the specimen surface of structure surface. It is not to measure the resistance to light abrasion so long fluff is made nor the resistance to gloss change.

4. Apparatus

is summarized in two parts of an abrasive part A and a vibration part B as shown in **Fig. 1**. A dimension of the abrasive part A is shown in **Fig. 1**, and is connected to the parallel arm on a spindle located 110 ± 1 mm apart from the center of abrasive part's circular arc. The abrasive part A is freely rotating on a ball-bearing horizontal spindle which is resting on the specimen with a known dead-weight load of 500 ± 5 g, and a specimen can be attached on the arc of the vibration part B. The vibration part B has a circular arc of 200 ± 5 mm radius, and it has two clamps at each end. The vibration part B vibrates 122 mm stroke in left and right direction, and its vibration frequency is 30 ± 2 times a minute.

5. Test specimen

Cut two kinds of specimen in CD and MD with smooth edge, and its width should be 20 mm for attachment to the abrasive part A, and about 25 mm for attachment to the vibration part B.

Specimen should be preconditioned according to **KS M 7012**, and it should not contain any spots, overlaps, wrinkle, and printed area, etc.