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Replacing GB/T 8942-2002

Paper – Determination of Softness

纸 柔软度的测定

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Paper – Determination of Softness

1 Scope

This Standard specifies the method of using the hand-feeling softness tester to determine the softness of paper.

This Standard is applicable to various wrinkle toilet paper, tissue paper and its derivatives, as well as other papers that require softness.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 450 Paper and Board--Sampling for Testing

GB/T 10739 Paper, Board and Pulps - Standard Atmosphere for Conditioning and Testing

3 Principle

Under the specified conditions, when the plate-shaped probe presses the sample into the slit to a certain depth (about 8mm), the instrument records the sum BETWEEN bending resistance force of the sample itself AND the maximum vector of the friction force of sample and the slit, which is called the softness of the sample; the smaller the instrument indication value is, the softer the sample.

4 Apparatus

4.1 Instrument structure

The structural schematic diagram of the hand-feeling softness tester can refer to Figure 1.

The instrument indication value error shall be $\pm 1.0\%$.

4.4 Instrument indication value repeatability

The instrument indication value repeatability shall be no greater than 1.0%.

4.5 Precautions

The instrument shall be installed on the flat and stable bench.

5 Sample Preparation

5.1 The sample shall be taken as per GB/T 450; it shall be subjected to the temperature and humidity treatment as per GB/T 10739.

5.2 According to the actual number of layers of the product, cut the sample into the size of 100mm×100mm. If the sample size is less than 100mm×100mm, try to cut the maximum size; the size deviation shall not exceed $\pm 0.5\text{mm}$. Meanwhile, mark the longitudinal, lateral, front and rear sides, respectively. If the front and rear sides can't be distinguished, ensure the same side of the sample upwards; so that guarantee the sample can be tested separately on the two sides.

6 Test Procedures

6.1 Start and preheat the instrument; then calibrate the instrument as per the instrument manual.

6.2 Place the sample on the middle of the test bench; and make it as symmetrical as possible to the slit. For the multilayer sample, it shall be layered and then overlapped in the original order for the softness test. Press the test button, begin to test. After the probe completes the whole process, the instrument records the test value.

6.3 Test the remaining samples as per 6.2; separately test 10 effective data in the longitudinal and lateral directions. The samples shall be tests 5 facing up and 5 facing down in each direction.

NOTE: When testing the softness in longitudinal direction, the longitudinal direction of the sample is perpendicular to the direction of the slit. When testing the softness in lateral direction, the longitudinal direction of the sample is parallel to the direction of the slit.

7 Calculation of Results

The results shall be expressed by the arithmetic mean of the test results in the

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