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Cellophane used for food packaging

食品包装用玻璃纸

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Cellophane used for food packaging

1 Scope

This standard specifies the classification, requirements, test methods, inspection rules and markings, packaging, transportation, storage of cellophane for food packaging (hereinafter referred to as food cellophane).

This standard applies to cellophane for transparent packaging of medicines, food and other commodities.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 450 Paper and board - Sampling for testing and identification of machine and cross direction wire side and felt side (GB/T 450-2008, ISO 186:2002, MOD)

GB/T 451.1 Paper and board - Determination of size and deviation

GB/T 451.2 Paper and board - Determination of quantitative weight (GB/T 451.2-2002, eqv ISO 536:1995)

GB/T 451.3 Paper and board - Determination of thickness (GB/T 451.3-2002, idt ISO 534:1998)

GB/T 462 Paper, paperboard and pulp - Determination of moisture in analytical samples (GB/T 462-2008; ISO 287:1985, MOD; ISO 638:1978, MOD)

GB/T 601 Chemical reagents - Preparation of standard titration solution

GB/T 2828.1 Procedure for sampling inspection by attributes - Part 1: Batch-by-batch inspection sampling plan retrieved by acceptance quality limit (AQL) (GB/T 2828.1-2003, ISO 2859-1:1999, IDT)

4.4 Flat paper specifications are 1000 mm × 1150 mm, 1000 mm × 1200 mm, 900 mm × 1100 mm, 900 mm × 500 mm or as specified in the contract. The size deviation shall not be greater than $\begin{matrix} +5 \\ -3 \end{matrix}$ mm; the skewness shall not exceed 5 mm.

4.5 The width and diameter of roll cellophane for food shall be in accordance with the contract requirements; the width deviation shall not exceed $\begin{matrix} +5 \\ -3 \end{matrix}$ mm.

4.6 Each roll of cellophane for food shall have no more than 2 broken ends. The joints of roll cellophane for food rewinding (or slitting) outside the machine shall be flat-joined by adhesive tape; meanwhile it shall attach a clear mark at the end of the roll or as required by the contract.

4.7 The elasticity of the roll cellophane for food shall be the same; the cut edges shall be neat; there shall be no cracks or damage. The zigzag shape of the roll end surface shall not exceed ± 5 mm; the cellophane for food used after rewinding (or slitting) outside the machine shall not exceed ± 2 mm.

5 Test method

5.1 The sampling shall be carried out according to GB/T 450.

5.2 The standard atmospheric conditions for specimen treatment and test are carried out in accordance with GB/T 10739.

5.3 The size shall be measured according to GB/T 451.1.

5.4 Quantitative measurement shall be carried out according to GB/T 451.2.

5.5 The thickness and width difference shall be measured according to GB/T 451.3; 5 points shall be measured evenly along the transverse direction of the paper; the result shall be expressed as the difference between the maximum value and the minimum value.

5.6 Tensile strength and elongation shall be measured in accordance with GB/T 12914. During arbitration, it shall be measured in accordance with the constant-speed stretching method.

5.7 The moisture is measured according to GB/T 462.

5.8 The moisture permeability shall be measured according to GB/T 2679.2.

5.9 The sulfur content is determined in accordance with Appendix A.

5.10 Anti-sticking property shall be determined according to Appendix B.

nonconformances found in the first sample and the second sample shall be accumulated. If the cumulative number of nonconforming products is less than or equal to the second acceptance number, then the batch is determined to be acceptable; if the cumulative number of nonconforming products is greater than or equal to the second rejection number, then the batch is determined to be unacceptable.

6.6 The purchaser has the right to carry out acceptance inspection according to this standard. If there is any objection to the quality of this product, the supplier shall be notified within three months after receiving the goods to take a sample jointly for re-inspection. If it meets the requirements of this standard or contract, it shall be judged as qualified and the purchaser shall be responsible for processing; if it does not meet the requirements of this standard or contract, it shall be judged as unqualified and the supplier shall be responsible for processing.

7 Markings, packaging, transportation, storage

7.1 Marking and packaging of cellophane for food shall be carried out in accordance with GB/T 10342.

7.1.1 Each 500 sheets of flat paper form a pack. Each pack is attached with a certificate and has a longitudinal mark. Every 10 packs are packed into a carton, the top and bottom of which shall be lined with cardboard and moisture-proof paper or as required by the contract.

7.1.2 Each roll of cellophane for food is wrapped with a plastic sleeve; the two ends are blocked with a series of moisture-proof closed packaging.

7.1.3 The roll cellophane for food can also be packaged in cartons or tubes. For cellophane rolls with a length of more than 700 mm, the roll weight shall not exceed 90 kg or as required by the contract.

7.1.4 Each piece (roll) of paper shall indicate the product name, size, basis weight, grade, net weight, gross weight, carton (tube) number, manufacturer name and production date.

7.2 When transporting, use tents and clean transportation vehicles. When transporting, paper shall not be thrown down from a high place to avoid damage to the packaging or cellophane.

7.3 The product shall be kept properly. It shall prevent the influence of rain, snow and ground moisture during storage and transportation.

Appendix B

(Normative)

Determination of anti-sticking

B.1 Principle

Under certain test conditions, the maximum relative humidity (%) at which the specimen does not stick to represents its anti-sticking ability.

B.2 Sampling

The specimen is taken according to GB/T 450.

B.3 Instrument

B.3.1 Constant temperature and humidity box, temperature (40 ± 1) °C, relative humidity $(70 \pm 2)\%$.

B.3.2 Weight, which has a bottom area of 50 mm × 100 mm and a mass of 3 kg; the bottom surface shall be straight.

B.3.3 Glass plate: the surface is straight; the size is 70 mm × 120 mm.

B.4 Test procedure

B.4.1 Cut out about 20 layers of 70 mm × 120 mm specimens. The long side of the specimen is the longitudinal direction; the stacking order of the front and back sides of each layer of the specimen shall be the same.

B.4.2 For specimens whose moisture is higher than the equilibrium moisture under the measurement conditions, the specimen shall be placed in a desiccator or an oven at a temperature not exceeding 40 °C, to make the moisture be lower than the equilibrium moisture before testing.

B.4.3 Adjust the constant temperature and humidity box to the temperature (40 ± 1) °C, the relative humidity $(70 \pm 2)\%$. Put the specimen into the oven. Use a clip to clamp the corner of the specimen to hang it for 2 hours to balance the moisture of the specimen. Put the glass plate and the weight in the box at the same time.

B.4.4 When the moisture of the specimen reaches equilibrium, immediately overlap the specimen on the glass plate in the box. Use weight to press it lightly. Continue to press it in the box for 30 minutes.

B.4.5 Take out the specimen after 30 min and observe the adhesion between the paper layers. If the specimen does not adhere, continue to increase the

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